=> FILE REG
FILE 'REGISTRY' ENTERED AT 16:40:03 ON 07 JUL 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 JUL 2004 HIGHEST RN 705249-96-3
DICTIONARY FILE UPDATES: 6 JUL 2004 HIGHEST RN 705249-96-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

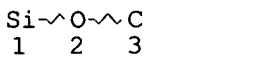
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> FILE HCAPLUS
FILE 'HCAPLUS' ENTERED AT 16:40:08 ON 07 JUL 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Jul 2004 VOL 141 ISS 2
FILE LAST UPDATED: 6 Jul 2004 (20040706/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> D QUE
L3 STR



100,277 structures from query

NODE ATTRIBUTES:
NSPEC IS RC AT 3
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L5	100277	SEA FILE=REGISTRY SSS FUL L3
L6	44035	SEA FILE=HCAPLUS ABB=ON L5
L7	2466	SEA FILE=HCAPLUS ABB=ON L6 AND (ADHESIV? OR CAULK? OR SEALANT?)
L8	729	SEA FILE=HCAPLUS ABB=ON L7 AND (AQ OR AQUEOUS OR WATER? OR H2O)
L10	6620	SEA FILE=HCAPLUS ABB=ON L6 AND COATING?
L11	2995	SEA FILE=HCAPLUS ABB=ON L10 AND (AQ OR AQUEOUS OR WATER? OR H2O)
L13	1894	SEA FILE=HCAPLUS ABB=ON (L8 OR L11) AND COMPOSITION?
L14	4	SEA FILE=HCAPLUS ABB=ON L13 AND VOLAT?(2A)BASE#
L15	578	SEA FILE=HCAPLUS ABB=ON L13 AND (POLYMER? OR PLASTIC?)/SC,SX
L16	9	SEA FILE=HCAPLUS ABB=ON L15 AND NH4OH
L17	2	SEA FILE=HCAPLUS ABB=ON L15 AND ?SILYL?(2A)?ACETAL?
L18	1	SEA FILE=HCAPLUS ABB=ON L15 AND REVERS?(3A)PROTECT?
L20	7	SEA FILE=HCAPLUS ABB=ON L15 AND ?ACETAL?
L21	17	SEA FILE=HCAPLUS ABB=ON L14 OR L16 OR L17 OR L18 OR L20
L22	2	SEA FILE=HCAPLUS ABB=ON L15 AND ?AMMONIUM?(3A)HYDROX?
L23	1	SEA FILE=REGISTRY ABB=ON AMMONIUM HYDROXIDE/CN
L24	13916	SEA FILE=HCAPLUS ABB=ON L23
L25	1	SEA FILE=HCAPLUS ABB=ON L15 AND L24
L26	18	SEA FILE=HCAPLUS ABB=ON L21 OR L22 OR L25

18 CA references with utility

=> D ALL L26 HITSTR 1-18

L26 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:585286 HCAPLUS
DN 139:134642
ED Entered STN: 30 Jul 2003
TI **Water**-thinned **adhesive compositions** and manufacture method thereof
IN Shiraga, Jun; Daichi, Yasuo; Tanaka, Yoshimasa; Tamaki, Yoshifumi
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent

LA Japanese
IC ICM C09J201-02
ICS C09J201-08
CC 38-3 (**Plastics** Fabrication and Uses)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003213244	A2	20030730	JP 2002-19993	20020129
PRAI	JP 2002-19993		20020129		

AB The **adhesive** compns., having low viscosity, high solids content, and good **water** resistance, contain polymer particles (average diameter 300-2000 nm, acid value 5-50) dispersed in **aqueous** media, wherein the compns. have gel fraction 25-80% and are capable of forming a film with Tg below -25°. The above polymer particles comprise carboxy-containing polymers and polymers bearing crosslinkable groups. Thus, a copolymer of 2-ethylhexyl acrylate (I), methacrylic acid, and Me methacrylate (II) was prepared, mixed with a copolymer of I, II, and glycidyl methacrylate, and neutralized with an **aqueous NH4OH** solution to give an **aqueous** dispersion of polymer particles (solids content 60.5%, viscosity 230 mPa-s, average diameter 770 nm).

ST high solid **water** thinned acrylic **adhesive**; methacrylic acid acrylic polymer **water** resistance **adhesive**; **water** thinned low viscosity acrylic resin **adhesive**

IT **Adhesives**
(sheets; **water**-thinned **adhesives** with low viscosity and good **water** resistance)

IT **Adhesives**
(**water**-resistant; **water**-thinned **adhesives** with low viscosity and good **water** resistance)

IT **Adhesives**
(**water**-thinned; **water**-thinned **adhesives** with low viscosity and good **water** resistance)

IT 37001-63-1P, 2-Ethylhexyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 61891-49-4P, 2-Ethylhexyl acrylate-methacrylic acid copolymer, ammonium salt 138178-41-3P, 2-Ethylhexyl acrylate-glycidyl methacrylate-methacrylic acid-methyl methacrylate copolymer, ammonium salt **569344-45-2P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-methacrylic acid-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer ammonium salt **569344-47-4P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-glycidyl methacrylate-methacrylic acid-γ-methacryloyloxypropyltrimethoxysilane copolymer ammonium salt 569344-48-5P, Cyclohexyl methacrylate-2-ethylhexyl acrylate-methacrylic acid copolymer ammonium salt
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**water**-thinned **adhesives** with low viscosity and good **water** resistance)

IT 40481-57-0P, 2-Ethylhexyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer **569344-42-9P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-γ-methacryloyloxypropyltrimethoxy silane-methyl methacrylate copolymer **569344-43-0P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-glycidyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**water**-thinned **adhesives** with low viscosity and good **water** resistance)

IT **569344-45-2P**, Cyclohexyl methacrylate-2-ethylhexyl

acrylate-methacrylic acid-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer ammonium salt **569344-47-4P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-glycidyl methacrylate-methacrylic acid-γ-methacryloyloxypropyltrimethoxysilane copolymer ammonium salt
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**water**-thinned **adhesives** with low viscosity and good **water** resistance)

RN 569344-45-2 HCAPLUS

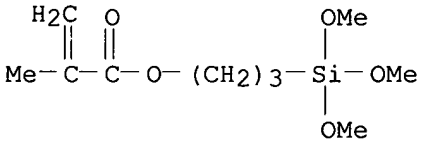
CN 2-Propenoic acid, 2-methyl-, polymer with cyclohexyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 569344-44-1
CMF (C11 H20 O2 . C10 H20 O5 Si . C10 H16 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

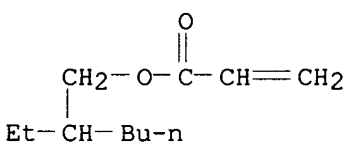
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



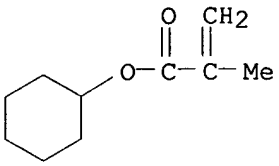
CM 3

CRN 103-11-7
CMF C11 H20 O2



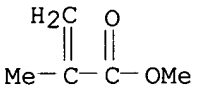
CM 4

CRN 101-43-9
CMF C10 H16 O2



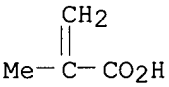
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



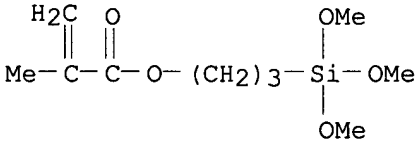
RN 569344-47-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with cyclohexyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 569344-46-3
CMF (C11 H20 O2 . C10 H20 O5 Si . C10 H16 O2 . C7 H10 O3 . C4 H6 O2)x
CCI PMS

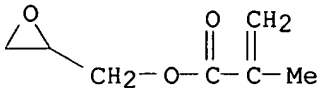
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



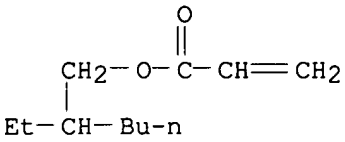
CM 3

CRN 106-91-2
CMF C7 H10 O3



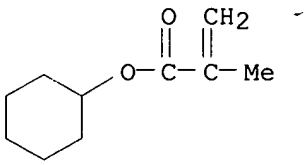
CM 4

CRN 103-11-7
CMF C11 H20 O2



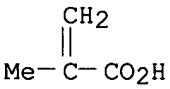
CM 5

CRN 101-43-9
CMF C10 H16 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



IT **569344-42-9P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer **569344-43-0P**, Cyclohexyl methacrylate-2-ethylhexyl acrylate-glycidyl methacrylate-γ-methacryloyloxypropyltrimethoxysila ne copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

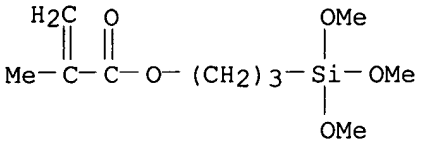
(**water**-thinned **adhesives** with low viscosity and good **water** resistance)

RN 569344-42-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymer with 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

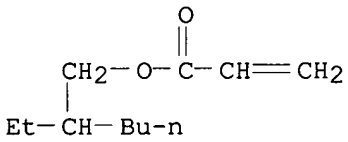
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



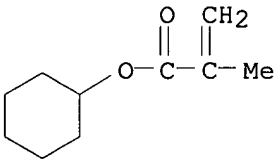
CM 2

CRN 103-11-7
CMF C11 H20 O2



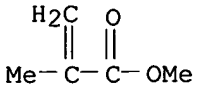
CM 3

CRN 101-43-9
CMF C10 H16 O2



CM 4

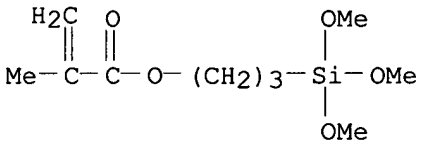
CRN 80-62-6
CMF C5 H8 O2



RN 569344-43-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymer with 2-ethylhexyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

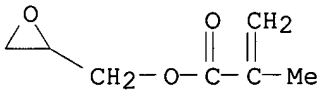
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



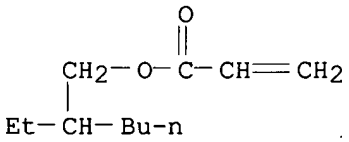
CM 2

CRN 106-91-2
CMF C7 H10 O3



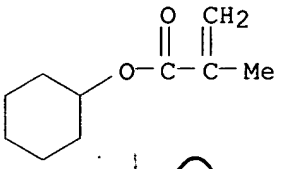
CM 3

CRN 103-11-7
CMF C11 H20 O2



CM 4

CRN 101-43-9
CMF C10 H16 O2



L26 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:570990 HCAPLUS
DN 139:118790
ED Entered STN: 25 Jul 2003
TI Reversibly protected silanes for incorporation into curable **coatings**, silane preparation, and **aqueous** polymer **composition**
IN Bowen, Daniel Edward, III; Castner, Eric Sean
PA The Goodyear Tire & Rubber Company, USA
SO PCT Int. Appl., 236 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07F007-04
ICS C07F007-18; C08F006-00; C08K005-00
CC 42-3 (Coatings, Inks, and Related Products)
Section cross-reference(s): 29
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003059918	A1	20030724	WO 2002-US35357	20021104

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2002-346426P P 20020107
OS MARPAT 139:118790
AB Hydroxy-silane functional groups are reversibly protected by acid-cleavable protecting groups. The development of reversible protecting groups greatly enhances the current utility of silanes while introducing further novel applications. For instance, reversibly protected silanes are of particular value in applications where room temperature cure and/or adhesion is of value, such as **coatings**, high resolution imaging, **caulks**, **adhesives**, **sealants**, gaskets, and silicones. Reversibly protected silanes can also be beneficially used in reticulating agents, sizing agents, tires, and release **coatings**. The reversibly protected silane can be incorporated into a **coating** resin by polymerizing a monomer containing the reversibly protected silane into the resin or by post-addition into the **coating** formulation. The reversibly protected silane remains protected under basic conditions, such as in a **coating**

formulation that contains a **volatile base**, for instance NH4OH. However, deprotection occurs under mildly acidic conditions. As a **coating** formulation containing a **volatile base** dries the **volatile base** evaps. and deprotection occurs, which allows for controlled room temperature crosslinking to occur with hydroxy-functionalized polymers. A silyl-acetal compound consists of a silane having 3 or 4 acetal moieties, such as 3-methacryloxypropylsilane triacetal with tetrahydropyran-2-ol (monomer preparation given).

ST silyl acetal prepn polymn **coating** use

IT **Adhesives**
Caulking compositions
Sealing **compositions**
(reversibly protected silanes for incorporation into curable)

IT Silicone rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(reversibly protected silanes for incorporation into curable)

IT **Coating** materials
(room-temperature-curable, **aqueous**; reversibly protected silanes for incorporation into curable **coatings**)

IT **Coating** materials
(solvent-resistant; reversibly protected silanes for incorporation into curable **coatings**)

IT **565198-42-7P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(latex **coating** binder2; reversibly protected silanes for incorporation into curable **coatings**)

IT 694-54-2, Tetrahydropyran-2-ol
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with alkoxysilane; reversibly protected silanes for incorporation into curable **coatings**)

IT 78-10-4, Tetraethylorthosilicate **2530-85-0**, 3-Methacryloxypropyltrimethoxysilane **5507-44-8**, Vinylmethyldiethoxysilane 71808-65-6, Octadecyldimethylmethoxysilane
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with tetrahydropyran-2-ol; reversibly protected silanes for incorporation into curable **coatings**)

IT 544715-95-9P **544715-96-0P** **544715-97-1P** 544715-98-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(reversibly protected silanes for incorporation into curable **coatings**)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Baumann, J; US 4369264 A 1983 HCAPLUS
(2) Ender, H; US 3287160 A 1966 HCAPLUS
(3) Ender, H; US 3287291 A 1966 HCAPLUS
(4) Nakamura, A; US 5973067 A 1999 HCAPLUS
(5) Rhodia Chimie; WO 0188049 A 2001 HCAPLUS
(6) Semprini, L; US 6472198 B1 2002 HCAPLUS

IT **565198-42-7P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(latex **coating** binder2; reversibly protected silanes for incorporation into curable **coatings**)

RN 565198-42-7 HCAPLUS

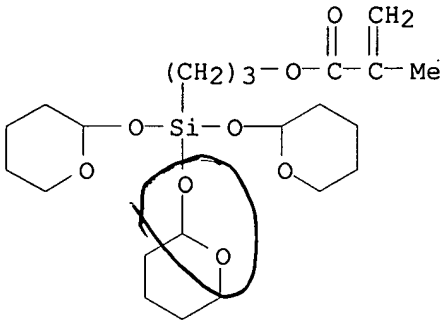
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 3-[tris[(tetrahydro-2H-pyran-2-yl)oxy]silyl]propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 565198-41-6
CMF (C22 H38 O8 Si . C8 H8 . C7 H12 O2 . C4 H6 O2)x
CCI PMS

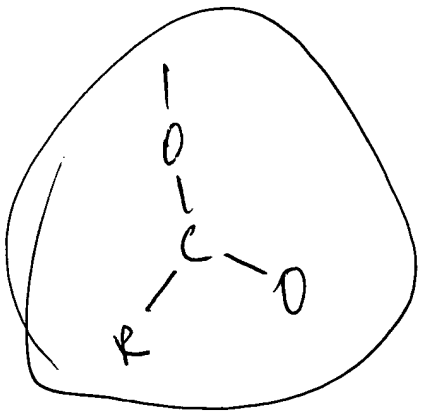
CM 2

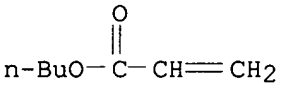
CRN 544715-97-1
CMF C22 H38 O8 Si



CM 3

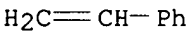
CRN 141-32-2
CMF C7 H12 O2





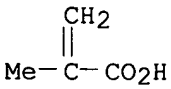
CM 4

CRN 100-42-5
CMF C8 H8



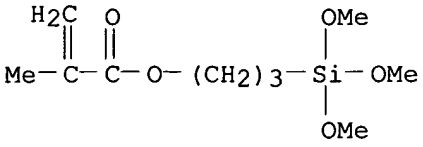
CM 5

CRN 79-41-4
CMF C4 H6 O2

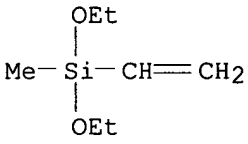


IT **2530-85-0**, 3-Methacryloxypropyltrimethoxysilane **5507-44-8**
, Vinylmethyldiethoxysilane
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with tetrahydropyran-2-ol; reversibly protected silanes for incorporation into curable **coatings**)

RN 2530-85-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (9CI) (CA INDEX NAME)

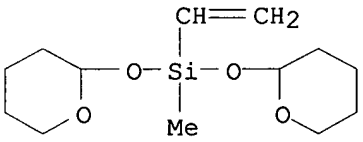


RN 5507-44-8 HCAPLUS
CN Silane, ethenyldiethoxymethyl- (9CI) (CA INDEX NAME)

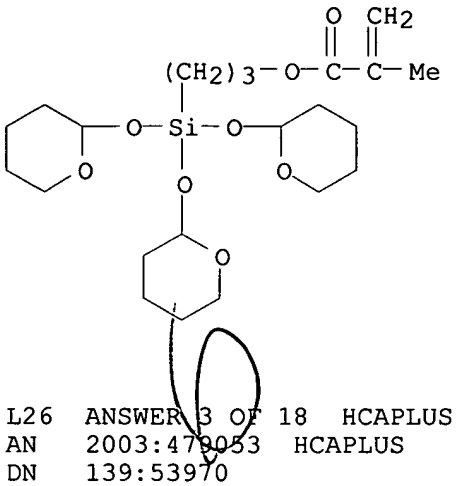


IT **544715-96-0P 544715-97-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(reversibly protected silanes for incorporation into curable **coatings**)

RN 544715-96-0 HCAPLUS
CN Silane, ethenylmethylbis[(tetrahydro-2H-pyran-2-yl)oxy]- (9CI) (CA INDEX NAME)



RN 544715-97-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-[tris[(tetrahydro-2H-pyran-2-yl)oxy]silyl]propyl ester (9CI) (CA INDEX NAME)



L26 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:479053 HCAPLUS
DN 139:53970
ED Entered STN: 24 Jun 2003
TI **Water**-dispersed pressure-sensitive **adhesive compositions**, pressure-sensitive **adhesive** sheets, and rubber foam-based **adhesive** sheets using them
IN Okada, Kenichi; Naito, Tomoya; Umeda, Michio
PA Nitto Denko Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09J133-06
ICS C08F220-12; C09J007-02; C09J133-02; C09J143-04; C08F230-08
CC 38-3 (**Plastics** Fabrication and Uses)
Section cross-reference(s): 39
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003176469	A2	20030624	JP 2001-378090	20011212
PRAI	JP 2001-378090		20011212		

AB The compns. contain phenolic tackifiers added to **aqueous** dispersions containing polymers prepared by copolymn. of monomer mixts. containing alkyl (meth)acrylates as major components and silane monomers. Thus, Bu acrylate 70, 2-ethylhexyl acrylate 30, acrylic acid 3, and KBM 503 (3-methacryloyloxypropyltrimethoxysilane) 0.05 part were emulsion-polymerized in the presence of dodecanethiol and 2,2'-azobis[2-(5-methyl-2-imidazolin-2-yl)propane].2HCl, the reaction mixture was adjusted to pH 8.0 with **NH4OH** and mixed with 0.06 part AY 43-210MC (n-decyltrimethoxysilane) to give an **aqueous** dispersion, 100 parts (as solids) of which was mixed with 30 parts (as solids) Tamanol E 100 (rosin phenolic resin) and applied on release sheets and bonded to both sides of PR 14 (nonwoven fabric) to give a pressure-sensitive **adhesive** sheet. The **adhesive** sheet was attached to an EPDM rubber foam sheet and bonded to a stainless steel sheet to give a test piece showing **adhesive** strength 12 and 12 N/20 mm initially and after 7-day storage at 60° and relative humidity 90%, resp.
ST polyacrylate silane tackifier pressure sensitive **adhesive**; rubber foam sheet **adhesive** polyacrylate tackifier; phenolic tackifier silane polymethacrylate **adhesive** sheet
IT Silsesquioxanes
RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)
(acrylic; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT EPDM rubber
Rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(foams; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT Rosin
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(polymers with phenols, tackifiers; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT Phenols, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(polymers with rosin or terpenes, tackifiers; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT Terpenes, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(polymers, with phenols, tackifiers; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT **Adhesives**
(pressure-sensitive; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT **Adhesives**
(sheets; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT Tackifiers
(**water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT 52627-29-9, Sumilite Resin PR 12603 147014-54-8, Tamanol E 100 547753-46-8, Nanolet G 1450
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(tackifier; **water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT **547741-85-5P**, Acrylic acid-AY 43-210MC-butyl acrylate-2-ethylhexyl acrylate-KBM 503 copolymer ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

IT **547741-85-5P**, Acrylic acid-AY 43-210MC-butyl acrylate-2-ethylhexyl acrylate-KBM 503 copolymer ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**water**-dispersed pressure-sensitive **adhesive** compns. containing silane-containing poly(meth)acrylates and phenolic tackifiers and their sheets with good adhesion to rubber foams)

RN 547741-85-5 HCAPLUS

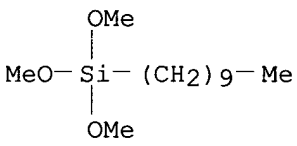
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with butyl 2-propenoate, decyltrimethoxysilane, 2-ethylhexyl 2-propenoate and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 547741-84-4
CMF (C13 H30 O3 Si . C11 H20 O2 . C10 H20 O5 Si . C7 H12 O2 . C3 H4 O2)x
CCI PMS

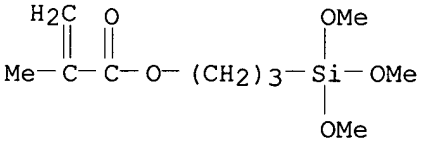
CM 2

CRN 5575-48-4
CMF C13 H30 O3 Si



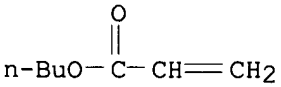
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



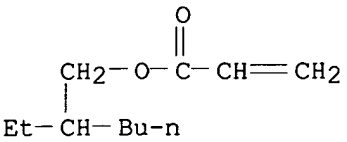
CM 4

CRN 141-32-2
CMF C7 H12 O2



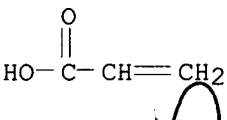
CM 5

CRN 103-11-7
CMF C11 H20 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



L26 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:473289 HCAPLUS
DN 139:53801
ED Entered STN: 20 Jun 2003
TI **Silyl-acetal** compounds, polymers, their preparation and use
IN Bowen, Daniel Edward; Castner, Eric Sean
PA USA
SO U.S. Pat. Appl. Publ., 48 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM C08L031-00
NCL 524556000; 525342000; 524261000
CC 37-6 (**Plastics** Manufacture and Processing)
Section cross-reference(s): **38**

applicants

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003114581	A1	20030619	US 2002-222739	20020816
	US 2004087803	A1	20040506	US 2003-695156	20031028
	US 2004092650	A1	20040513	US 2003-695024	20031028
	US 2004092651	A1	20040513	US 2003-695494	20031028
	US 2004087693	A1	20040506	US 2003-696704	20031029
	US 2004110894	A1	20040610	US 2003-702679	20031106
	US 2004116712	A1	20040617	US 2003-724798	20031201
PRAI	US 2001-312851P	P	20010816		
	US 2001-326042P	P	20010928		
	US 2002-222739	A3	20020816		

OS MARPAT 139:53801
AB **Reversible protection** of hydroxy-silane functional groups is achieved by acid cleavable protecting groups, e.g. a silane having 3 or 4 **acetal** moieties. The development of **reversible protecting** groups greatly enhances the

current utility of silanes. For instance, **reversibly protected** silanes are of particular value in applications where room temperature cure and/or adhesion is of value, such as **coatings**, high resolution imaging, **caulks**, **adhesives**, **sealants**, gaskets, and silicones. **Reversibly protected** silanes can also be beneficially used in reticulating agents, and in sizing agents, tires, and release **coatings**. The incorporation of **reversibly protected** silanes into **coating** resins is of particular value. The **reversibly protected** silane can be incorporated into the **coating** resin by polymerizing a monomer containing the **reversibly protected** silane into the resin or by post-addition into the **coating** formulation. The **reversibly protected** silane remains **protected** under basic conditions, such as in a **coating** formulation that contains a **volatile base**, for instance **NH4OH**. Deprotection occurs under mildly acidic conditions. Thus, as a **coating** formulation containing a **volatile base** dries the **volatile base** evaps. and deprotection occurs. This allows for controlled room-temperature crosslinking to occur with hydroxy-functionalized polymers.

ST **silyl acetal** monomer latex development; **reversibly protected** silane monomer; **adhesive coating** formulation **silyl acetal** compd

IT Silicone rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(incorporating **silyl-acetal**; room temperature vulcanizable **composition** containing **silyl-acetal**)

IT **Adhesives**
Caulking compositions
Sealing **compositions**
(preparation of **silyl acetal** compds. for)

IT **Coating** materials
(**water**-thinned; preparation of **silyl acetal** compds. for)

IT 546101-60-4, Robond PS 94
RL: TEM (Technical or engineered material use); USES (Uses)
(**adhesive**; **adhesives** containing **silyl-acetal** reticulating agent for reduced tack)

IT **544715-97-1P** 544715-98-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and polymerization; preparation of **silyl acetal** compds. for)

IT **56467-21-1P 544715-99-3P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation and swelling property of film latex)

IT 544715-95-9P **544715-96-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of **silyl acetal** compds. for)

IT 78-10-4, Tetraethyl orthosilicate
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of **silyl acetal** compds. for)

IT 694-54-2, Tetrahydropyran-2-ol
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with alkoxysilane; preparation of **silyl acetal** compds. for)

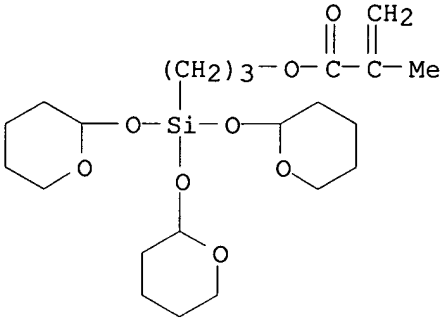
IT **2530-85-0**, 3-Methacryloxypropyltrimethoxysilane **5507-44-8**, Vinylmethyldiethoxysilane 71808-65-6, Octadecyldimethylmethoxysilane
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction with tetrahydropyranol; preparation of **silyl acetal** compds. for)

IT **544715-97-1P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and polymerization; preparation of **silyl acetal** compds. for)

RN 544715-97-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[tris[(tetrahydro-2H-pyran-2-yl)oxy]silyl]propyl ester (9CI) (CA INDEX NAME)



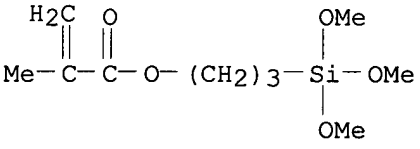
IT **56467-21-1P 544715-99-3P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation and swelling property of film latex)

RN 56467-21-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

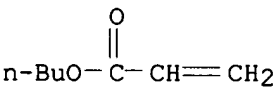
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 2

CRN 141-32-2
CMF C7 H12 O2

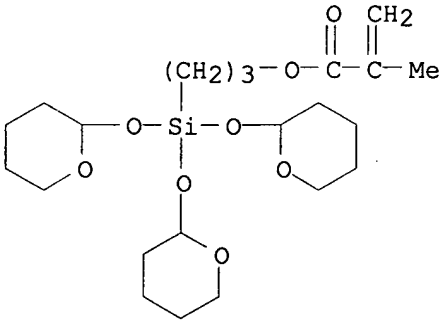


RN 544715-99-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[tris[(tetrahydro-2H-pyran-2-yl)oxy]silyl]propyl ester, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

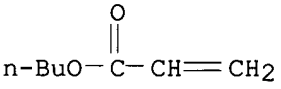
CM 1

CRN 544715-97-1
CMF C22 H38 O8 Si

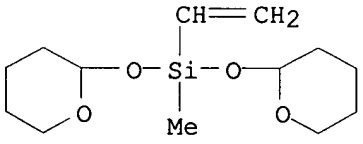


CM 2

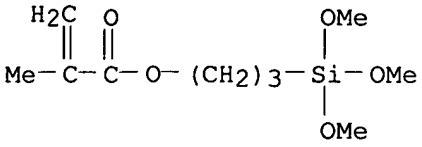
CRN 141-32-2
CMF C7 H12 O2



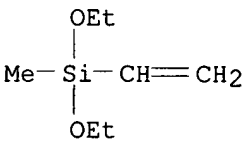
IT **544715-96-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of **silyl acetal** compds. for)
RN 544715-96-0 HCAPLUS
CN Silane, ethenylmethylbis[(tetrahydro-2H-pyran-2-yl)oxy]- (9CI) (CA INDEX NAME)



IT **2530-85-0**, 3-Methacryloxypropyltrimethoxysilane **5507-44-8**, Vinylmethyldiethoxysilane
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with tetrahydropyranol; preparation of **silyl acetal** compds. for)
RN 2530-85-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (9CI) (CA INDEX NAME)



RN 5507-44-8 HCAPLUS
CN Silane, ethenyldiethoxymethyl- (9CI) (CA INDEX NAME)



L26 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:503400 HCAPLUS
DN 137:63920
ED Entered STN: 05 Jul 2002
TI Star polymer colloidal stabilizers and their uses in emulsion polymers and replacement of surfactants
IN Phan, Lien; Mukherjee, Apala; Farwaha, Rajeev; Thomaides, John S.
PA National Starch and Chemical Investment Holding Corporation, USA
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C08F230-08
ICS C08F220-28; C08F002-24; C09D157-00
CC 37-2 (**Plastics** Manufacture and Processing)
Section cross-reference(s): **38**, 42
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1219650	A2	20020703	EP 2001-129243	20011211
	EP 1219650	A3	20021127		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 6420479	B1	20020716	US 2000-752897	20001229
	CN 1362427	A	20020807	CN 2001-130283	20011229
PRAI	US 2000-752897	A	20001229		

AB A colloid **composition** is presented which contains an amphiphilic star polymer having potentially crosslinkable sites on the polymer backbone. The potentially crosslinkable site is either a sterically hindered silane monomer or an acetoacetoxy-containing monomer. When the crosslinkable site is a sterically hindered silane monomer the star polymer also contains an internal catalyst, and when the crosslinkable site is an acetoacetoxy group the colloid **composition** also contains a non-polymeric polyfunctional amine. The star polymer can be either a random or heteroarm star polymer. The colloid **composition** is useful in the formation and stabilization of emulsion polymers, as a replacement for surfactants currently used for this purpose. Emulsion polymers formulated with the colloid **composition** are especially useful for one-part

coatings such as paints and **adhesives**. Thus, heating a mixture of i-PrOH 100, vinyltriisopropoxysilane 3, methacrylic acid 7, Me methacrylate 90, pentaerythritol tetrakis(3-mercaptopropionate) 6.6, AIBN 0.5, **NH4OH** 6 and **water** 300 parts at reflux for 2 h gave a random star polymer in solution with solids content 14.0%, Brookfield viscosity 25 cPs, particle size 104 nm, surface tension 38 dyne/cm and mol. weight 30,000. Polymerizing Bu acrylate 250 with Me methacrylate 250 in **water** 174 containing the star polymer 250.6 and **NH4OH** 51 dissolved in **water** 51 parts gave a copolymer emulsion with solids content 48.73%, viscosity 178 cPs, particle size 131 nm, min. film formation temperature 7.2° and Tg 20.7°, which was used in a high gloss paint preparation

ST amphiphilic star polymer stabilizer colloid emulsion surfactant replacement; **coating** emulsion stabilization colloid amphiphilic star polymer

IT Paints
(high-gloss; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT **Adhesives**
Amphiphiles
Colloids
Emulsifying agents
(star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT Polymers, preparation
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(star-branched; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer **280585-18-4P 439694-35-6P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder for **coating**; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT 7575-23-7, Pentaerythritol tetrakis(3-mercaptopropionate)
RL: RCT (Reactant); RACT (Reactant or reagent)
(star polymer core; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT **439694-31-2P 439694-32-3P**, Methacrylic acid-methyl methacrylate-2-(2-oxoimidazolidin-1-yl)ethyl methacrylate-vinyltriisopropoxysilane copolymer **439694-33-4P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(star-shaped, stabilizers; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

IT **280585-18-4P 439694-35-6P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder for **coating**; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)

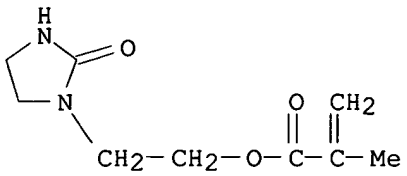
RN 280585-18-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenyltris(1-methylethoxy)silane and 2-(2-oxo-1-imidazolidinyl)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

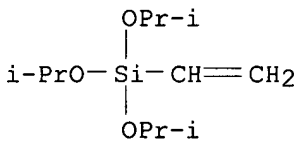
CRN 86261-90-7

CMF C9 H14 N2 O3



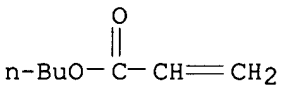
CM 2

CRN 18023-33-1
CMF C11 H24 O3 Si



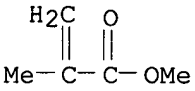
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

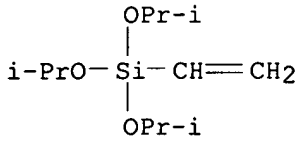
CRN 80-62-6
CMF C5 H8 O2



RN 439694-35-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and ethenyltris(1-methylethoxy)silane (9CI) (CA INDEX NAME)

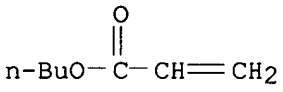
CM 1

CRN 18023-33-1
CMF C11 H24 O3 Si



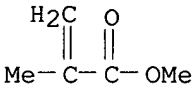
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

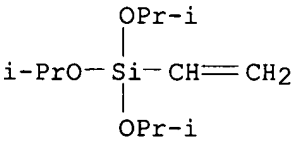
CRN 80-62-6
CMF C5 H8 O2



IT **439694-31-2P 439694-32-3P,** Methacrylic acid-methyl methacrylate-2-(2-oxoimidazolidin-1-yl)ethyl methacrylate-vinyltriisopropoxysilane copolymer **439694-33-4P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(star-shaped, stabilizers; star polymer colloidal stabilizers and uses in emulsion polymers and replacement of surfactants)
RN 439694-31-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenyltris(1-methylethoxy)silane and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

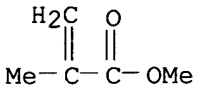
CM 1

CRN 18023-33-1
CMF C11 H24 O3 Si



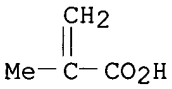
CM 2

CRN 80-62-6
CMF C5 H8 O2



CM 3

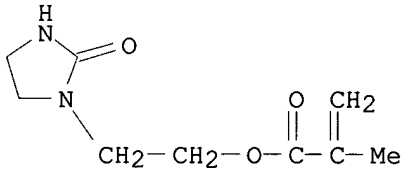
CRN 79-41-4
CMF C4 H6 O2



RN 439694-32-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenyltris(1-methylethoxy)silane, methyl 2-methyl-2-propenoate and 2-(2-oxo-1-imidazolidinyl)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

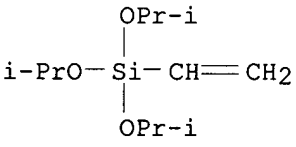
CM 1

CRN 86261-90-7
CMF C9 H14 N2 O3



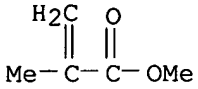
CM 2

CRN 18023-33-1
CMF C11 H24 O3 Si



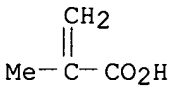
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

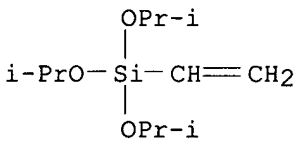
CRN 79-41-4
CMF C4 H6 O2



RN 439694-33-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate and ethenyltris(1-methylethoxy)silane (9CI) (CA INDEX NAME)

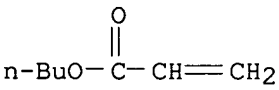
CM 1

CRN 18023-33-1
CMF C11 H24 O3 Si



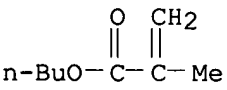
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 97-88-1
CMF C8 H14 O2



L26 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:780911 HCAPLUS
DN 133:336273
ED Entered STN: 07 Nov 2000
TI Biodegradable vinyl alcohol polymers containing lactone rings and carboxyl groups and their **compositions**
IN Fujiwara, Naoki; Somemiya, Toshitaka; Kusufuji, Takeshi
PA Kuraray Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08F008-12
ICS C08F218-02; C08K003-08; C08L029-04; C08F210-02
CC 38-3 (**Plastics** Fabrication and Uses)
Section cross-reference(s): 42
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000309607	A2	20001107	JP 1999-346140	19991206
PRAI	JP 1998-350144	A	19981209		
	JP 1999-48107	A	19990225		

AB The polymers, showing good heat stability, **water** resistance, gas impermeability, and cold impact resistance, satisfy ethylene (I) content 2-19 mol%, degree of polymerization 200-2,000, saponification degree 80-99.99 mol%, and total content of lactone ring and carboxyl group 0.02-0.4 mol%. Compns. of 100 parts the polymers and 0.0003-1 parts (as Na) alkali metals are also claimed. Thus, 107.2 kg vinyl acetate was polymerized with 15.6 g maleic anhydride at 60° in the presence of 2,2'-azobis(4-methoxy-2,4-dimethylvarelonitrile) while inducing I into the reactor, saponified, and neutralized to give a vinyl alc. polymer showing saponification degree 98.5, I content 7 mol%, and average d.p. 1000, less fisheyes, elasticity 373 kg/mm2 (as a 15%-glycerin-blended specimen), excellent cold impact resistance (as a bottle), O permeability 8.2 mL/m2dayatm (as a **coating** on an oriented polypropylene support), and biodegradability 99.4% in soil for 3 day.

ST lactone carboxy contg PVA transparent film; vinyl acetate ethylene maleic anhydride copolymer; oxygen impermeable **coating** ethylene modified PVA; biodegradable transparent bottle vinyl alc polymer; **acetalized** ethylene copolymd PVA impact resistant

IT Bottles
Heat stabilizers
(biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT Transparent films
(biodegradable, heat-, impact-, and **water**-resistant; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT Polyvinyl **acetals**
RL: BPR (Biological process); BSU (Biological study, unclassified); DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(carboxyl-containing; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT Alkali metals, uses

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(heat stabilizers; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT **Water**-resistant materials
Water-resistant materials
(heat-resistant, impact-resistant, transparent, biodegradable; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT **Coating** materials
(transparent, oxygen-impermeable; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT Biodegradable materials
(transparent; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT Heat-resistant materials
Heat-resistant materials
(**water**-resistant, impact-resistant, transparent, biodegradable; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT 107-96-0DP, 3-Mercaptopropionic acid, reaction products with epoxy-containing vinyl acetate resins, saponified 692-29-5DP, reaction products with saponified ethylene-maleic anhydride-vinyl acetate copolymer 28064-24-6DP, Ethylene-maleic anhydride-vinyl acetate copolymer, saponified 30731-80-7DP, Ethylene-ethyl vinyl ether-maleic anhydride-vinyl acetate copolymer, saponified 188617-54-1DP, Allyl glycidyl ether-ethylene-maleic anhydride-vinyl acetate copolymer, reaction products with thiol compds., saponified 303954-37-2DP, Ethylene-itaconic acid-maleic anhydride-vinyl acetate copolymer, saponified **303954-38-3DP**, Ethylene-maleic anhydride-vinyl acetate-vinyltrimethoxysilane copolymer, saponified 303954-39-4DP, saponified 303954-40-7DP, saponified
RL: BPR (Biological process); BSU (Biological study, unclassified); DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

IT 7440-09-7, Potassium, uses 7440-23-5, Sodium, uses
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(heat stabilizer; biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

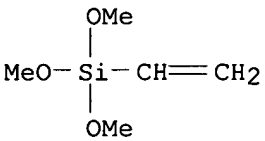
IT **303954-38-3DP**, Ethylene-maleic anhydride-vinyl acetate-vinyltrimethoxysilane copolymer, saponified
RL: BPR (Biological process); BSU (Biological study, unclassified); DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(biodegradable ethylene-copolymd. vinyl alc. polymers containing lactone rings and carboxyl groups)

RN 303954-38-3 HCAPLUS

CN Acetic acid ethenyl ester, polymer with ethene, ethenyltrimethoxysilane and 2,5-furandione (9CI) (CA INDEX NAME)

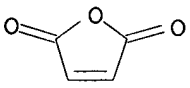
CM 1

CRN 2768-02-7
CMF C5 H12 O3 Si



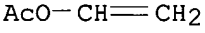
CM 2

CRN 108-31-6
CMF C4 H2 O3



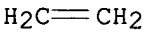
CM 3

CRN 108-05-4
CMF C4 H6 O2



CM 4

CRN 74-85-1
CMF C2 H4



L26 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:21652 HCAPLUS
DN 132:79775
ED Entered STN: 11 Jan 2000
TI **Water**-thinned **coating** resin **compositions** and cured products containing them
IN Kitamoto, Takeshi; Sakai, Sadayuki; Hashimoto, Tomio
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09D157-04
ICS C09D005-00; C09D143-04; C08F002-24; C08F002-44; C08F246-00; C08F230-08; C08F220-56; C08F220-06
CC 42-7 (Coatings, Inks, and Related Products)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI JP 2000007981 A2 20000111 JP 1998-181770 19980629
PRAI JP 1998-181770 19980629
AB In radical polymerization of mixts. of (a) 0.1-20% unsatd. monomers containing carbonyl groups, (b) 0.1-20% H2C:CMeCO2C3H6SiMeR12 or H2C:CMeCO2C3H6SiR23 (R1, R2 = MeO, EtO), (c) 0.1-10% unsatd. monomers containing carboxyl groups, and (d) 50-99.7% other unsatd. monomers in **H2O** in the presence of emulsifiers and polymerization initiators, pH of the mixts. before polymerization is adjusted to ≥6.0 with **volatile bases** and the resulting copolymer dispersion is mixed with **water**-soluble polyhydrazine compds. in a hydrazine/CO mol. ratio of (0.1-3)/1. Thus, an **aqueous** solution containing diacetoneacrylamide 50.0, γ-methacryloxypropyltrimethoxysilane 50.0, acrylic acid 10.0, Me methacrylate 230.0, Bu acrylate 160.0, Eleminol JS-2 (reactive emulsifier) 65.8, and ammonium persulfate 3.0 parts was mixed with **aqueous** ammonia to pH 7.0, added dropwise to **H2O**, and aged at 80° for 2 h to give a **composition** showing excellent storage stability. A rapid-drying, alkali- and **water**-resistant **coating** was formed from the **composition** mixed with adipic acid dihydrazide.
ST alkoxysilane acrylic polymer **coating** hydrazide crosslinking; **water** resistance emulsion **coating** acrylic polymer; dryability emulsion **coating** acrylic polymer; alkali resistance emulsion **coating** acrylic polymer
IT **Coating** materials
(alkali-resistant; rapid-drying acrylic **aqueous** emulsion **coatings** with good **water** and alkali resistance)
IT **Coating** materials
(**water**-resistant, **water**-thinned; rapid-drying acrylic **aqueous** emulsion **coatings** with good **water** and alkali resistance)
IT **253882-32-5P 253882-34-7P 253882-36-9P 253882-38-1P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(rapid-drying acrylic **aqueous** emulsion **coatings** with good **water** and alkali resistance)
IT **253882-32-5P 253882-34-7P 253882-36-9P 253882-38-1P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(rapid-drying acrylic **aqueous** emulsion **coatings** with good **water** and alkali resistance)
RN 253882-32-5 HCAPLUS
CN Hexanedioic acid, dihydrazide, polymer with butyl 2-propenoate, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, Eleminol JS 2, methyl 2-methyl-2-propenoate, 2-propenoic acid and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 253882-31-4
CMF (C10 H20 O5 Si . C9 H15 N O2 . C7 H12 O2 . C6 H14 N4 O2 . C5 H8 O2 . C3 H4 O2 . Unspecified)x
CCI PMS

CM 2

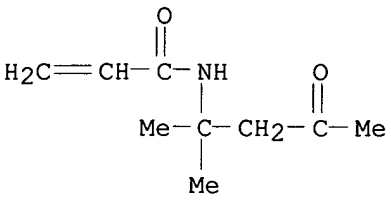
CRN 79585-53-8
CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

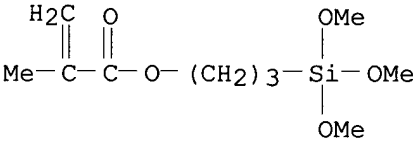
CM 3

CRN 2873-97-4
CMF C9 H15 N O2



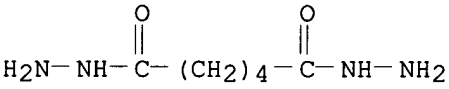
CM 4

CRN 2530-85-0
CMF C10 H20 O5 Si



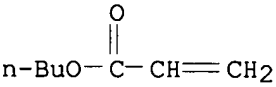
CM 5

CRN 1071-93-8
CMF C6 H14 N4 O2



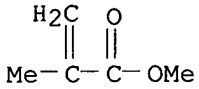
CM 6

CRN 141-32-2
CMF C7 H12 O2



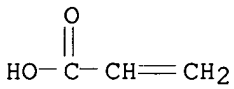
CM 7

CRN 80-62-6
CMF C5 H8 O2



CM 8

CRN 79-10-7
CMF C3 H4 O2



RN 253882-34-7 HCAPLUS
CN Hexanedioic acid, dihydrazide, polymer with butyl 2-propenoate, Eleminol JS 2, ethenylbenzene, ethyl 2-methyl-2-propenoate, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate, 2-propenoic acid and 3-(triethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 253882-33-6
CMF (C13 H26 O5 Si . C10 H14 O5 . C8 H8 . C7 H12 O2 . C6 H14 N4 O2 . C6 H10 O2 . C3 H4 O2 . Unspecified)x
CCI PMS

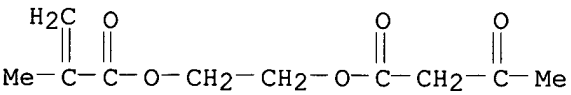
CM 2

CRN 79585-53-8
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

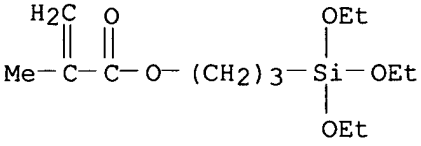
CRN 21282-97-3
CMF C10 H14 O5



CM 4

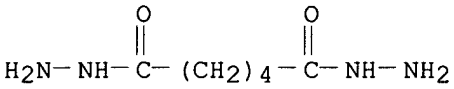
CRN 21142-29-0

CMF C13 H26 O5 Si



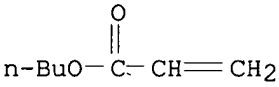
CM 5

CRN 1071-93-8
CMF C6 H14 N4 O2



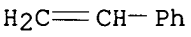
CM 6

CRN 141-32-2
CMF C7 H12 O2



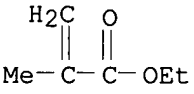
CM 7

CRN 100-42-5
CMF C8 H8



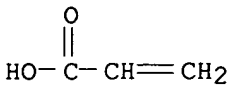
CM 8

CRN 97-63-2
CMF C6 H10 O2



CM 9

CRN 79-10-7
CMF C3 H4 O2



RN 253882-36-9 HCAPLUS
CN Hexanedioic acid, dihydrazide, polymer with butyl 2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, Latemul S 180, methyl 2-methyl-2-propenoate and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 253882-35-8
CMF (C11 H20 O2 . C10 H20 O4 Si . C9 H15 N O2 . C7 H12 O2 . C6 H14 N4 O2 . C5 H8 O2 . C5 H8 O2 . C3 H4 O2 . Unspecified)x
CCI PMS

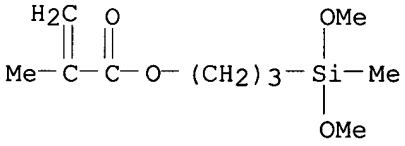
CM 2

CRN 110120-14-4
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

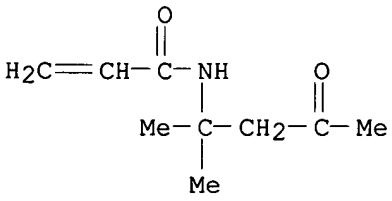
CM 3

CRN 14513-34-9
CMF C10 H20 O4 Si



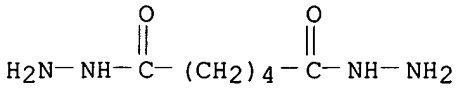
CM 4

CRN 2873-97-4
CMF C9 H15 N O2



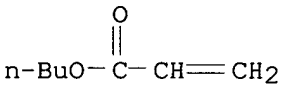
CM 5

CRN 1071-93-8
CMF C6 H14 N4 O2



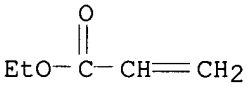
CM 6

CRN 141-32-2
CMF C7 H12 O2



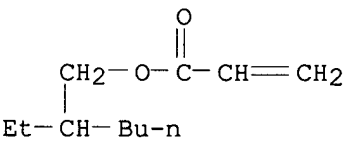
CM 7

CRN 140-88-5
CMF C5 H8 O2



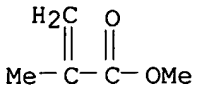
CM 8

CRN 103-11-7
CMF C11 H20 O2



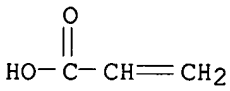
CM 9

CRN 80-62-6
CMF C5 H8 O2



CM 10

CRN 79-10-7
CMF C3 H4 O2



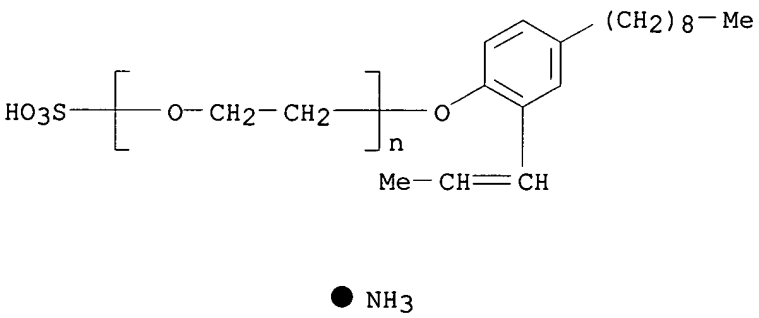
RN 253882-38-1 HCAPLUS
CN Hexanedioic acid, dihydrazide, polymer with 3-(diethoxymethylsilyl)propyl 2-methyl-2-propenoate, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid, α-sulfo-ω-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) ammonium salt and 3-(trimethoxysilyl)propyl-2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 253882-37-0
CMF (C12 H24 O4 Si . C11 H20 O2 . C10 H20 O5 Si . C9 H15 N O2 . C8 H8 . C6 H14 N4 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)n C18 H28 O4 S . H3 N)x
CCI PMS

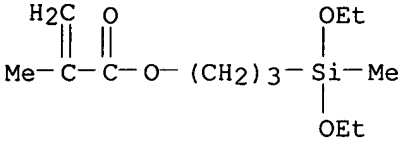
CM 2

CRN 140651-97-4
CMF (C2 H4 O)n C18 H28 O4 S . H3 N
CCI PMS



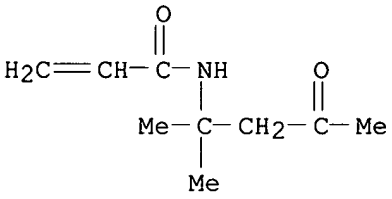
CM 3

CRN 65100-04-1
CMF C12 H24 O4 Si



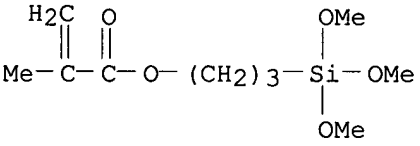
CM 4

CRN 2873-97-4
CMF C9 H15 N O2



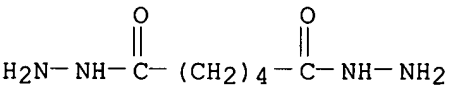
CM 5

CRN 2530-85-0
CMF C10 H20 O5 Si



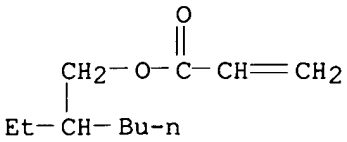
CM 6

CRN 1071-93-8
CMF C6 H14 N4 O2



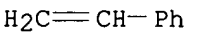
CM 7

CRN 103-11-7
CMF C11 H20 O2



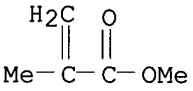
CM 8

CRN 100-42-5
CMF C8 H8



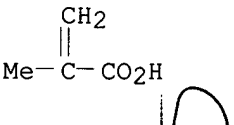
CM 9

CRN 80-62-6
CMF C5 H8 O2



CM 10

CRN 79-41-4
CMF C4 H6 O2



L26 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:650413 HCAPLUS
DN 131:273203
ED Entered STN: 13 Oct 1999
TI **Water**-thinned one-component polymer **coating compositions** with good storage stability and high dryability and their manufacture
IN Kitamoto, Takeshi; Sakai, Sadayuki
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08F246-00
ICS C08F002-24; C08F002-44; C09D005-00; C09D125-04; C09D133-02; C09D133-06; C09D143-04; C09D157-04; C08F246-00; C08F220-10;

C08F212-08; C08F220-06; C08F230-08
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): **35**
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11279235	A2	19991012	JP 1998-83189	19980330
PRAI	JP 1998-83189		19980330		

AB In manufacture of title compns. by radical polymerization of mixts. containing radically polymerizable ethylenically unsatd. monomers containing 0.1-10% CO2H-containing monomers and 0.1-20% CH2:CMeCO2C3H6SiMeR2 or CH2:CMeCO2C3H6SiR3 (R = OMe, OEt) in the presence of emulsifying agents, polymerization initiators, and **H2O, volatile bases** are preliminarily mixed to control pH before polymerization to ≥6.0. Thus, an **aqueous composition** containing Me methacrylate, Bu acrylate, acrylic acid, (γ-methacryloxypropyl)trimethoxysilane, and Eleminol JS 2 (reactive emulsifier) was mixed with an **NH4OH aqueous** solution (to pH 7.0) and heated to give a polymer **composition** with good storage stability, which was mixed with **coating** additives and applied on a glass sheet to give a **coating** showing good alkali and **water**-whitening resistance.

ST **water** thinned acrylic polymer **coating** dryability; pH control acrylic polymer **coating** storage stability; alkali resistance **coating** alkoxysilyl acrylic polymer; carboxy acrylic polymer **coating** storage stability

IT **Coating** materials
(alkali-resistant; manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT Polymerization
(radical; manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT **Coating** materials
(**water**-resistant; manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT **Coating** materials
(**water**-thinned; manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT **245655-73-6P**, Acrylic acid-butyl acrylate-Eleminol JS 2-(γ-methacryloxypropyl)trimethoxysilane-methyl methacrylate copolymer **245655-75-8P 245655-77-0P 245655-79-2P**
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT 7664-41-7, Ammonia, uses
RL: NUU (Other use, unclassified); USES (Uses)
(pH-controlling agents; manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

IT **245655-73-6P**, Acrylic acid-butyl acrylate-Eleminol JS 2-(γ-methacryloxypropyl)trimethoxysilane-methyl methacrylate copolymer **245655-75-8P 245655-77-0P 245655-79-2P**

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of **water**-thinned acrylic polymer **coating** compns. with good storage stability and high dryability)

RN 245655-73-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, Eleminol JS 2, 2-propenoic acid and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

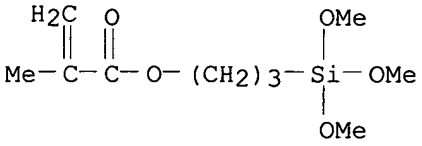
CM 1

CRN 79585-53-8
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

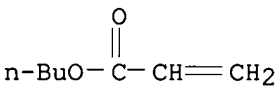
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



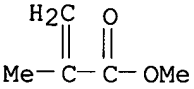
CM 3

CRN 141-32-2
CMF C7 H12 O2



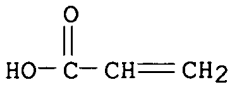
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



RN 245655-75-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(triethoxysilyl)propyl ester, polymer with butyl 2-propenoate, Eleminol JS 2, ethenylbenzene, ethyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

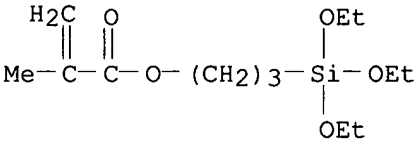
CM 1

CRN 79585-53-8
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

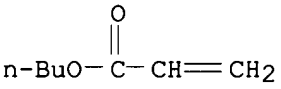
CM 2

CRN 21142-29-0
CMF C13 H26 O5 Si



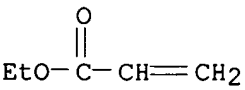
CM 3

CRN 141-32-2
CMF C7 H12 O2



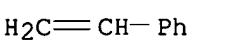
CM 4

CRN 140-88-5
CMF C5 H8 O2



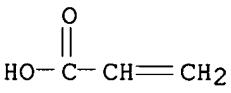
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

CRN 79-10-7
CMF C3 H4 O2



RN 245655-77-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, Latemul S 180, methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

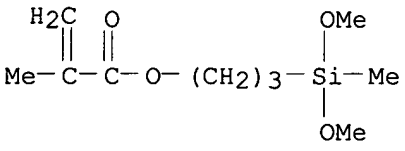
CM 1

CRN 110120-14-4
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

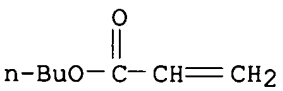
CM 2

CRN 14513-34-9
CMF C10 H20 O4 Si



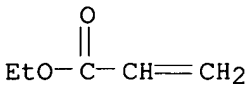
CM 3

CRN 141-32-2
CMF C7 H12 O2



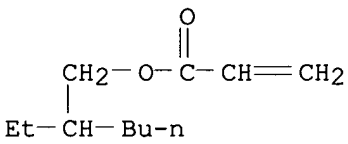
CM 4

CRN 140-88-5
CMF C5 H8 O2



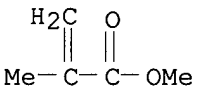
CM 5

CRN 103-11-7
CMF C11 H20 O2



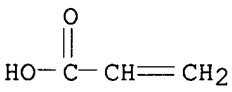
CM 6

CRN 80-62-6
CMF C5 H8 O2



CM 7

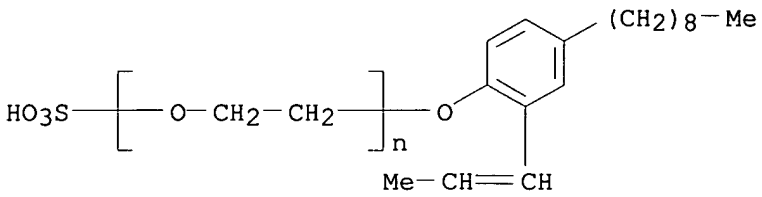
CRN 79-10-7
CMF C3 H4 O2



RN 245655-79-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(diethoxymethylsilyl)propyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-propenoic acid, α-sulfo-ω-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) ammonium salt and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

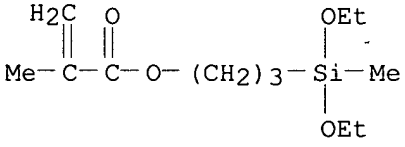
CM 1

CRN 140651-97-4
CMF (C2 H4 O)n C18 H28 O4 S . H3 N
CCI PMS



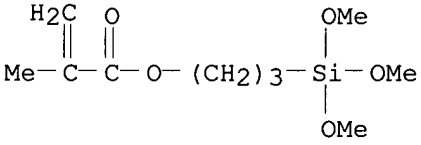
CM 2

CRN 65100-04-1
CMF C12 H24 O4 Si



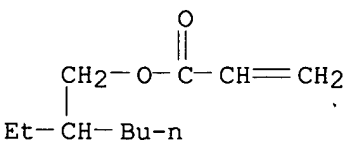
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



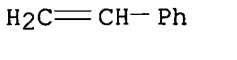
CM 4

CRN 103-11-7
CMF C11 H20 O2



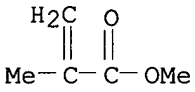
CM 5

CRN 100-42-5
CMF C8 H8



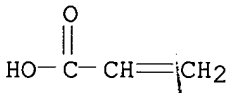
CM 6

CRN 80-62-6
CMF C5 H8 O2



CM 7

CRN 79-10-7
CMF C3 H4 O2



L26 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:746054 HCAPLUS
DN 128:34886
ED Entered STN: 27 Nov 1997
TI Preparation of **water**-stabilized organosilane compounds and methods for **coating** substrates with them
IN Elfersy, Jacques; Moses, Timoth C.; Liebeskind, Lanny S.; Allred, Gary D.
PA Bioshield Technologies, Inc., USA
SO PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07F007-18
ICS A61L002-18; C07F009-09; A61L031-00; D06M016-00; A01N055-00; C03C017-30; A23L003-3544; A23L003-3481
CC 29-6 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): **35**, 42, 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9742200	A1	19971113	WO 1997-US8913	19970507

W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG,

SI, SK, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

	AU 9730113	A1	19971126	AU 1997-30113	19970507
	BR 9702243	A	19991228	BR 1997-2243	19970507
	NZ 329397	A	20000128	NZ 1997-329397	19970507
	IL 122555	A1	20021201	IL 1997-122555	19970507
PRAI	US 1996-16985P	P	19960507		
	US 1996-655873	A	19960507		
	WO 1997-US8913	W	19970507		

AB The products of reacting organosilanes RnSiX4-n (n = 0-3; each R = non-hydrolyzable organic group; each X = hydrolyzable group) with polyols containing at least three hydroxy groups, where any two of the hydroxy groups are separated by at least three intervening atoms, are claimed. An example is the result of mixing 5% weight/volume **aqueous** [((MeO)3SiCH2CH2CH2)Me2NC18H37]Cl and **aqueous** pentaerythritol; the solution is believed to contain linear and/or cross-linked oligomers generated by the formation of an equilibrating mixture of intramol. O-Si-O bonds within the same mol. of {C18H37NMe2CH2CH2CH2Si(OH)3-n[OCH2C(CH2OH)3]n}Cl and by formation of intermol. O-Si-O bonds between different of these mols. Other example organosilanes include 3-chloropropyltrimethylsilane, 3-chloropropyltrimethoxysilane, octadecyltrimethoxysilane, perfluorooctyltriethoxysilane, (MeO)3Si(CH2)3NHC(O)C7F15, (MeO)3Si(CH2)3NHSO2C7F15, NH2(CH2)2NH(CH2)3Si(OMe)3, NaO(MeO)P(O)(CH2)3Si(OH)3, and H2C:CHSiCl3. Other example polyols include dipentaerythritol, tris(hydroxymethyl)ethane, tris(hydroxymethyl)aminomethane, and trimethyl(tris(**hydroxymethyl**)methyl)**ammonium** iodide. These products do not suffer from undesirable self-condensation in **water** and are non-toxic, non-flammable, simple, economical and operable over a wide variety of pH ranges. A method of treating a substrate by contacting the substrate with the product, compound, or **composition** for a period of time sufficient for treatment of the substrate is claimed. Claimed applications include dyeing substrates, antimicrobially treating food articles, antimicrobially **coating** fluid containers used for containing a human or animal consumable product, antimicrobially **coating** latex medical articles, antimicrobially treating concrete pipe, tooth brush, comb, hair brush, denture, orthodontic retainer, a spa or pool filter, an air filter, an HVAC air system, cabin air system, etc.

ST **water** stabilized organosilane prepn **coating**; polyol reaction product antimicrobial organosilane; antimicrobial **water** stabilized organosilane prepn **coating**; silane **water** stabilized prepn **coating**

IT Silanes
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); RCT (Reactant); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(organosilanes; preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

IT Alcohols, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(polyhydric; preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

IT Antimicrobial agents
Coating process

(preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

IT 75-54-7DP, Dichloro(methyl)silane, reaction products with **aqueous** polyols 75-78-5DP, Dichlorodimethylsilane, reaction products with **aqueous** polyols 75-79-6DP, Trichloro(methyl)silane, reaction products with **aqueous** polyols 75-94-5DP, Trichloro(vinyl)silane, reaction products with **aqueous** polyols 77-85-0DP, reaction products with organosilanes 77-86-1DP, Tris(hydroxymethyl)aminomethane, reaction products with organosilanes 77-99-6DP, reaction products with organosilanes 78-07-9DP, Triethoxy(ethyl)silane, reaction products with **aqueous** polyols **78-08-0DP**, Triethoxy(vinyl)silane, reaction products with **aqueous** polyols 78-24-0DP, Tripentaerythritol, reaction products with organosilanes 80-10-4DP, Dichlorodiphenylsilane, reaction products with **aqueous** polyols 98-13-5DP, Trichloro(phenyl)silane, reaction products with **aqueous** polyols 115-21-9DP, Trichloro(ethyl)silane, reaction products with **aqueous** polyols 115-77-5DP, reaction products with organosilanes 126-11-4DP, Tris(hydroxymethyl)nitromethane, reaction products with organosilanes 126-58-9DP, Dipentaerythritol, reaction products with organosilanes 141-57-1DP, Trichloro(propyl)silane, reaction products with **aqueous** polyols 149-74-6DP, Dichloro(methyl)(phenyl)silane, reaction products with **aqueous** polyols 775-56-4DP, Diethoxy(methyl)(phenyl)silane, reaction products with **aqueous** polyols 919-30-2DP, reaction products with **aqueous** polyols 1067-25-0DP, Trimethoxy(propyl)silane, reaction products with **aqueous** polyols 1112-39-6DP, reaction products with **aqueous** polyols 1185-55-3DP, reaction products with **aqueous** polyols 1760-24-3DP, N-(3-Trimethoxysilylpropyl)ethylenediamine, reaction products with **aqueous** polyols 2344-83-4DP, (3-Chloropropyl)trimethylsilane, reaction products with **aqueous** polyols 2530-83-8DP, (3-Glycidoxypropyl)trimethoxysilane, reaction products with **aqueous** polyols **2530-85-0DP**, reaction products with **aqueous** polyols 2530-87-2DP, (3-Chloropropyl)trimethoxysilane, reaction products with **aqueous** polyols 2550-06-3DP, Trichloro(3-chloropropyl)silane, reaction products with **aqueous** polyols 2602-34-8DP, (3-Glycidoxypropyl)triethoxysilane, reaction products with **aqueous** polyols **2768-02-7DP**, reaction products with **aqueous** polyols 2943-75-1DP, reaction products with **aqueous** polyols 2996-92-1DP, reaction products with **aqueous** polyols 3069-42-9DP, Trimethoxy(octadecyl)silane, reaction products with **aqueous** polyols **4130-08-9DP**, Triacetoxy(vinyl)silane, reaction products with **aqueous** polyols 4376-78-7DP, Tetrapentaerythritol, reaction products with organosilanes 5089-70-3DP, (3-Chloropropyl)triethoxysilane, reaction products with **aqueous** polyols 5314-55-6DP, Ethyltrimethoxysilane, reaction products with **aqueous** polyols 5356-85-4DP, Methylbis(trimethylsilyloxy)(vinyl)silane, reaction products with **aqueous** polyols 5581-66-8DP, Methyltripropoxysilane, reaction products with **aqueous** polyols 10025-78-2DP, Trichlorosilane, reaction products with **aqueous** polyols 10026-04-7DP, Tetrachlorosilane, reaction products with **aqueous** polyols 10088-50-3DP, (2-((Chloromethyl)phenyl)ethyl)triethoxysilane, reaction products with **aqueous** polyols 13688-90-9DP, Trichloro(4-(chloromethyl)phenyl)silane, reaction products with **aqueous** polyols 13822-56-5DP, 3-(Trimethoxysilyl)propylamine, reaction products with **aqueous** polyols 13829-21-5DP, Trichloro(decyl)silane, reaction products with **aqueous** polyols 14579-03-4DP, reaction products with **aqueous** polyols **16753-62-1DP**, Dimethoxy(methyl)(vinyl)silane, reaction products with **aqueous** polyols 17096-07-0DP, 3-(Tris(trimethylsilyloxy)silyl)propyl 2-methyl-2-propenoate, reaction

products with **aqueous** polyols 17887-45-5DP, Dichloro(methyl)(2-(4-methylphenyl)ethyl)silane, reaction products with **aqueous** polyols 18395-30-7DP, Isobutyltrimethoxysilane, reaction products with **aq**. polyols **21142-29-0DP**, reaction products with **aqueous** polyols 27668-52-6DP, Dimethyl(octadecyl)(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 27668-53-7DP, (Dodecyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 31001-77-1DP, (3-Mercaptopropyl)dimethoxy(methyl)silane, reaction products with **aqueous** polyols **34937-00-3DP**, Z-6032, reaction products with **aqueous** polyols 35141-36-7DP, Trimethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 41051-80-3P, (3-(Diethylamino)propyl)trimethoxysilane 41591-87-1DP, Dimethyl(tetradecyl)(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 41591-88-2DP, Cetyldimethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 41591-90-6DP, Eicosyldimethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 50975-76-3DP, (2-((Chloromethyl)phenyl)ethyl)trimethoxysilane, reaction products with **aqueous** polyols 53662-11-6DP, Triethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 58274-32-1DP, Trichloro(2-((chloromethyl)phenyl)ethyl)silane, reaction products with **aqueous** polyols 62117-57-1DP, Dimethyl(octadecyl)(3-(triethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 68959-20-6DP, Didecyl(methyl)(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 76995-03-4DP, Decyldimethyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 83354-12-5DP, Dimethyl(octyl)(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 96305-13-4DP, Triethoxy(heptadecafluorooctyl)silane, reaction products with **aqueous** polyols 98046-76-5DP, N-3-(Trimethoxysilyl)propylpentadecafluorooctanamide, reaction products with **aqueous** polyols 102722-08-7DP, (1,1-Bis(**hydroxymethyl**)-2-**hydroxyethyl**)**trimethylammonium** iodide, reaction products with organosilanes 106415-29-6DP, Dimethyl(octadecyl)(3-(trimethoxysilyl)propyl)ammonium bromide, reaction products with **aqueous** polyols 110338-17-5DP, N-(3-(Trimethoxysilyl)propyl)heptadecafluorooctanesulfonamide, reaction products with **aqueous** polyols 117856-01-6DP, Didecyl(methyl)(3-(trimethoxysilyl)propyl)ammonium bromide, reaction products with **aqueous** polyols 143203-33-2DP, Tributyl(3-(trimethoxysilyl)propyl)ammonium chloride, reaction products with **aqueous** polyols 154380-29-7DP, N-3-(Trimethoxysilyl)propylnonadecafluorodecanamide, reaction products with **aqueous** polyols 199524-07-7DP, N-3-(Trimethoxysilyl)propyltricosafluorododecanamide, reaction products with **aqueous** polyols 199524-08-8DP, N-3-(Trimethoxysilyl)propylheptacosafluorotetradecanamide, reaction products with **aqueous** polyols 199524-09-9DP, N-3-(Trimethoxysilyl)propyluntriacontafluorohexadecanamide, reaction products with **aqueous** polyols 199524-10-2DP, N-3-(Trimethoxysilyl)propylpentatriacontafluorooctadecanamide, reaction products with **aqueous** polyols 199524-11-3DP, Dimethyl(3-((octanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-12-4DP, (3-((Decanoyl)amino)propyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-13-5DP, (3-((Dodecanoyl)amino)propyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium,

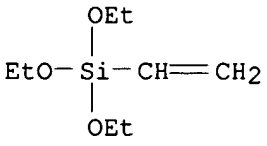
reaction products with **aqueous** polyols 199524-14-6DP, Dimethyl(3-((tetradecanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-15-7DP, (3-((Hexadecanoyl)amino)propyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-16-8DP, Dimethyl(3-((octadecanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-17-9DP, Dimethyl(3-((pentadecafluorooctanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-18-0DP, Dimethyl(3-((nonadecafluorodecanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-19-1DP, Dimethyl(3-((tricosafluorododecanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-20-4DP, (3-((Heptacosafluorotetradecanoyl)amino)propyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-21-5DP, Dimethyl(3-(trimethoxysilyl)propyl)(3-((untriacontafluorohexadecanoyl)amino)propyl)ammonium, reaction products with **aqueous** polyols 199524-22-6DP, Dimethyl(3-((pentatriacontafluorooctadecanoyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-23-7DP, Dimethyl(3-((heptadecafluorooctylsulfonyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-24-8DP, Dimethyl(3-((heneicosafluorodecylsulfonyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-25-9DP, Dimethyl(3-((pentacosafluorododecylsulfonyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-26-0DP, (3-((Nonacosafluorotetradecylsulfonyl)amino)propyl)dimethyl(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-27-1DP, Dimethyl(3-(trimethoxysilyl)propyl)(3-((tritriacontafluorohexadecylsulfonyl)amino)propyl)ammonium, reaction products with **aqueous** polyols 199524-28-2DP, Dimethyl(3-((pentatriacontafluoroheptadecylsulfonyl)amino)propyl)(3-(trimethoxysilyl)propyl)ammonium, reaction products with **aqueous** polyols 199524-29-3DP, reaction products with **aqueous** polyols
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

IT 124-28-7, Dimethyl(octadecyl)amine 2530-87-2, (3-Chloropropyl)trimethoxysilane
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

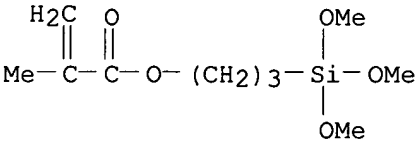
IT **78-08-0DP**, Triethoxy(vinyl)silane, reaction products with **aqueous** polyols **2530-85-0DP**, reaction products with **aqueous** polyols **2768-02-7DP**, reaction products with **aqueous** polyols **4130-08-9DP**, Triacetoxy(vinyl)silane, reaction products with **aqueous** polyols **16753-62-1DP**, Dimethoxy(methyl)(vinyl)silane, reaction products with **aqueous** polyols **21142-29-0DP**, reaction products with **aqueous** polyols **34937-00-3DP**, Z-6032, reaction products with **aq**. polyols
RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of **water**-stabilized antimicrobial organosilane compds. and methods for **coating** substrates with them)

RN 78-08-0 HCAPLUS

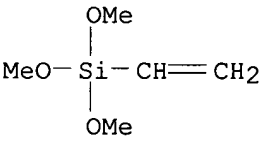
CN Silane, ethenyltriethoxy- (9CI) (CA INDEX NAME)



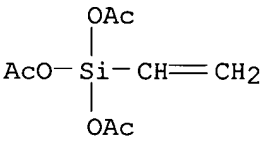
RN 2530-85-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (9CI) (CA INDEX NAME)



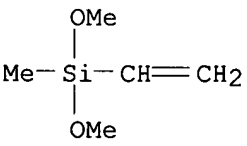
RN 2768-02-7 HCAPLUS
CN Silane, ethenyltrimethoxy- (9CI) (CA INDEX NAME)



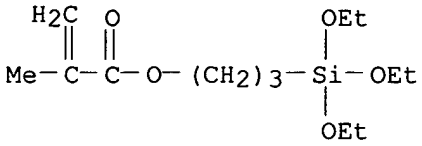
RN 4130-08-9 HCAPLUS
CN Silanetriol, ethenyl-, triacetate (9CI) (CA INDEX NAME)



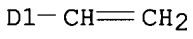
RN 16753-62-1 HCAPLUS
CN Silane, ethenyldimethoxymethyl- (9CI) (CA INDEX NAME)

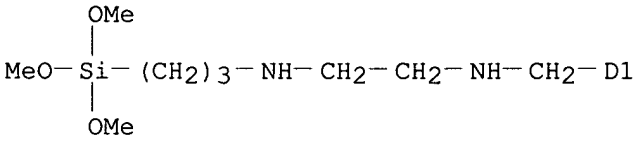


RN 21142-29-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(triethoxysilyl)propyl ester (9CI) (CA INDEX NAME)



RN 34937-00-3 HCAPLUS
CN 1,2-Ethanediamine, N-[(ethenylphenyl)methyl]-N'-[3-(trimethoxysilyl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)





L26 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:648617 HCAPLUS
DN 127:332526
ED Entered STN: 11 Oct 1997
TI Curing **compositions** with improved adhesion strength
IN Murohashi, Tomoko; Yamamoto, Hirotsugu; Doi, Takao
PA Asahi Glass Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08L101-10
ICS C08K005-54; C08L083-10
CC 38-3 (**Plastics** Fabrication and Uses)
Section cross-reference(s): **37**
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09255881	A2	19970930	JP 1996-72761	19960327
PRAI JP 1996-72761		19960327		

AB The compns. with improved mech. properties contain (a) ≥1 hydrolysis Si group-containing organic polymers, (b) hydrolysis Si group-containing amine compds., and (c) (CH2:CQ1CO2Q0)mT [m = 1-6; Q1 = H, Me; Q0 = direct

bonding, C1-40 linear or branched divalent (un)substituted hydrocarbon; T = C1-40 organic group containing ≥1 substituents or bondings selected from tetrahydrofurfuryl, phenoxy, OH, cyclic **acetal** bonding]. Thus, polymerizing propyleneoxide using glycerin as an initiator in the presence of Zn hexacyanocobaltate to give polyoxypropylenetriol, modifying OH groups to allyloxy groups, reacting with methyldimethoxysilane in the presence of Pt catalysts gave a methyldimethoxysilylpropyl-containing polyether (A). Then, polyether A 100, CaCO3 150, plasticizers 50, thixotropy agents 3, Kayarad TC 110S (tetrahydrofurfuryl-containing monoacrylate) 2.6, N-(2-aminoethyl)-3-aminopropyltrimethoxysilane 2, vinyltrimethoxysilane 5, and bis(acetylacetonato)tin (curing catalysts) 2 parts were mixed and aged under moisture to give test piece showing breaking strength (JIS A 5758, Al plate to Al plate) 8.8 kg/cm2, elongation at break 590%, and good **waterproofing** adhesion.

ST curing **compn** adhesion strength; silane contg polyether aminopropyltrimethoxysilane acrylate **compn**

IT **Adhesives**
(curing compns. with improved adhesion strength)

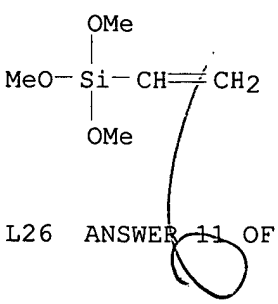
IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(curing compns. with improved adhesion strength)

IT 1760-24-3DP, polymer with a polyether, an acrylate, and vinyltrimethoxysilane **2768-02-7DP**, Vinyltrimethoxysilane, polymer with a polyether, an acrylate, and an aminosilane compound 16881-77-9DP, Methyldimethoxysilane, reaction products with polyether, polymer with silane compds. and an acrylate 16969-10-1DP, Kayarad R 128H, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 26403-58-7DP, Blemmer AE 350, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 56641-05-5DP, Kayarad R 564, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 87320-05-6DP, Kayarad R 604, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 87320-06-7DP, Kayarad TC 110S, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 97773-08-5DP, Kayarad R 644, polymer with a polyether, vinyltrimethoxysilane, and aminosilane compound 179462-72-7DP, reaction products with methyldimethoxysilane, polymer with silane compds. and an acrylate
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(curing compns. with improved adhesion strength)

IT **2768-02-7DP**, Vinyltrimethoxysilane, polymer with a polyether, an acrylate, and an aminosilane compound
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(curing compns. with improved adhesion strength)

RN 2768-02-7 HCAPLUS

CN Silane, ethenyltrimethoxy- (9CI) (CA INDEX NAME)



L26 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:378284 HCAPLUS
DN 127:82578
ED Entered STN: 18 Jun 1997
TI Preapplied, curable silicone threadlocking **adhesive** and **sealant**
IN Rich, Richard D.; Maandi, Eerik; Gontarz, Paula M.; Chu, Hsien-kun
PA Loctite Corp., USA
SO U.S., 10 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM C09J004-02
ICS C08L083-07
NCL 523176000
CC 38-3 (**Plastics** Fabrication and Uses)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5635546	A	19970603	US 1996-603845	19960222
	US 5853520	A	19981229	US 1997-788724	19970123
	EP 791635	A1	19970827	EP 1997-300597	19970130
	EP 791635	B1	20030502		
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	AT 239058	E	20030515	AT 1997-300597	19970130
	CA 2196463	AA	19970822	CA 1997-2196463	19970131
	AU 9712508	A1	19970828	AU 1997-12508	19970204
	AU 705810	B2	19990603		
	JP 09328658	A2	19971222	JP 1997-50967	19970219
PRAI	US 1996-603845	A3	19960222		

AB A title **composition**, useful for threadlocking engageable members of a threaded mech. fastener, e.g., bolt/nut assembly, comprise a reactive silicone (meth)acrylate emulsified in an **aqueous** medium, optionally a polymerizable non-silicone (meth)acrylate monomer or oligomer, and a microencapsulated peroxy initiator for cure of the reactive silicone (meth)acrylate. The emulsion may be applied to at least a portion of an engagement surface of a matable part, dried to form a **coating**, and the surface engaged with the complementary engagement structure, to release the microencapsulated peroxy initiator and bond the matable part and complementary engagement structure. A typical **composition** contained ethoxylated bisphenol A dimethacrylate, Acrysol ASE-60, Me3Si-capped dimethyldimethoxysilane-methacryloxypropyltrimethoxysilane-phenyltrimethoxysilane copolymer (preparation given), n-Bu ferrocene, PhCO2NH4, **NH4OH**, and microencapsulated benzoyl peroxide in **H2O**.

ST methacrylate polysiloxane curable threadlocking **adhesive** emulsion; methacryloxypropyltrimethoxysilane polysiloxane curable threadlocking **sealant**; ethoxylated bisphenol dimethacrylate polysiloxane curable **sealant**; benzoyl peroxide microencapsulated catalyst polysiloxane **sealant**

IT Polysiloxanes, uses
Polysiloxanes, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic-epoxy, **aqueous** emulsions; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts and)

IT Epoxy resins, uses
Epoxy resins, uses

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic-polysiloxane-, **aqueous** emulsions; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts and)

IT Peroxides, uses
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking catalysts; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated)

IT **Adhesives**
Sealing **compositions**
(curable, **aqueous** emulsions; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts)

IT Polysiloxanes, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(methacrylate-, **aqueous** emulsions; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts and)

IT Crosslinking catalysts
(microencapsulated peroxides; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and)

IT Bolts
(preapplied, curable silicone threadlocking **adhesive** and **sealant** containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts)

IT **191721-26-3P**, Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane-Tetraethoxysilane copolymer **191721-27-4P**, Dimethyldimethoxysilane-Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane copolymer **191721-28-5P**, Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**aqueous** emulsion; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing anionic acrylic polymer and microencapsulated peroxide and)

IT 37325-11-4, Acrysol ASE-60
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(**aqueous** emulsion; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and)

IT 94-36-0, Benzoyl peroxide, uses
RL: CAT (Catalyst use); USES (Uses)
(preapplied, curable silicone threadlocking **adhesive** and **sealant aqueous** emulsions containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated)

IT **1336-21-6, Ammonium hydroxide** 1863-63-4, Ammonium benzoate 31904-29-7, n-Butyl ferrocene
RL: MOA (Modifier or additive use); USES (Uses)
(preapplied, curable silicone threadlocking **adhesive** and **sealant aqueous** emulsions containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts and)

IT 7732-18-5, **Water**, uses
RL: NUU (Other use, unclassified); USES (Uses)
(preapplied, curable silicone threadlocking **adhesive** and **sealant** emulsions containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts)

IT **191721-26-3P**, Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane-Tetraethoxysilane copolymer **191721-27-4P**, Dimethyldimethoxysilane-Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane copolymer **191721-28-5P**, Ethoxylated bisphenol A dimethacrylate-Methacryloxypropyltrimethoxysilane-Phenyltrimethoxysilane copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**aqueous** emulsion; preapplied, curable silicone threadlocking **adhesive** and **sealant** containing anionic acrylic polymer and microencapsulated peroxide and)

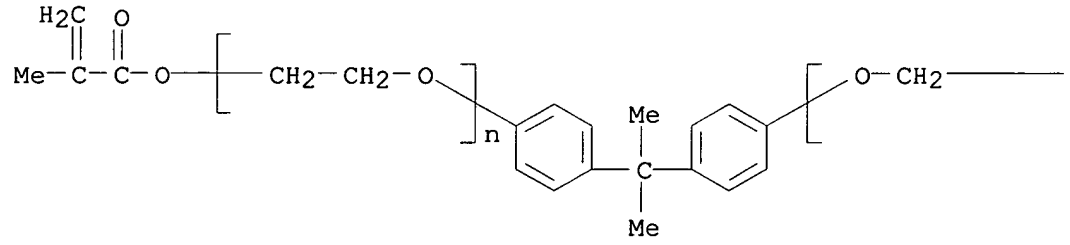
RN 191721-26-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], silicic acid (H4SiO4) tetraethyl ester and trimethoxyphenylsilane (9CI) (CA INDEX NAME)

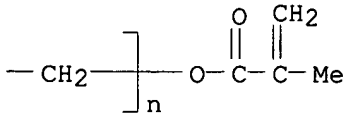
CM 1

CRN 41637-38-1
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A

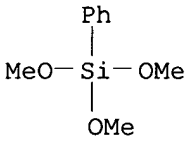


PAGE 1-B



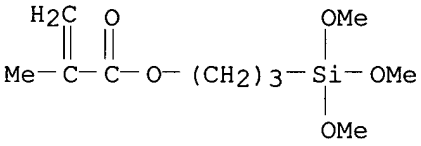
CM 2

CRN 2996-92-1
CMF C9 H14 O3 Si



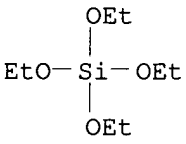
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 4

CRN 78-10-4
CMF C8 H20 O4 Si

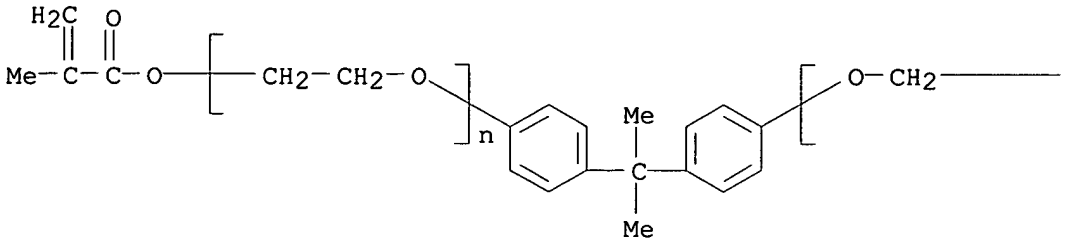


RN 191721-27-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with dimethoxydimethylsilane, α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and trimethoxyphenylsilane (9CI) (CA INDEX NAME)

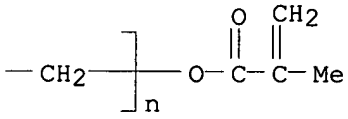
CM 1

CRN 41637-38-1
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A

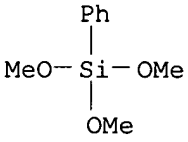


PAGE 1-B



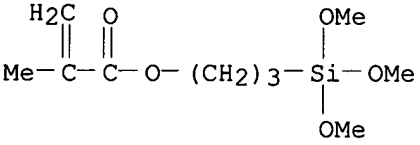
CM 2

CRN 2996-92-1
CMF C9 H14 O3 Si



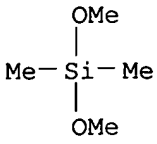
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 4

CRN 1112-39-6
CMF C4 H12 O2 Si

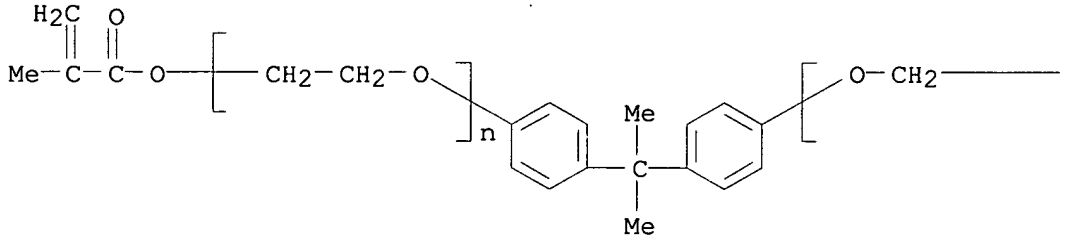


RN 191721-28-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and trimethoxyphenylsilane (9CI) (CA INDEX NAME)

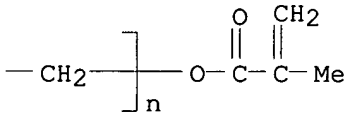
CM 1

CRN 41637-38-1
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A

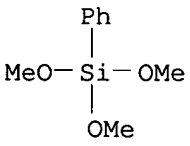


PAGE 1-B



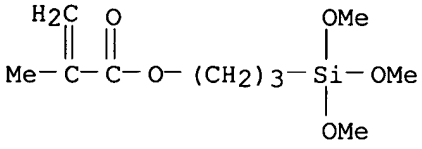
CM 2

CRN 2996-92-1
CMF C9 H14 O3 Si

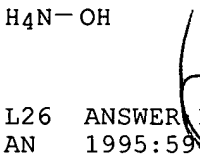


CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



IT **1336-21-6, Ammonium hydroxide**
RL: MOA (Modifier or additive use); USES (Uses)
(preapplied, curable silicone threadlocking **adhesive** and **sealant aqueous** emulsions containing methacrylate polysiloxanes and ethoxylated bisphenol A dimethacrylate and anionic acrylic polymer and microencapsulated peroxy catalysts and)
RN 1336-21-6 HCAPLUS
CN Ammonium hydroxide ((NH4)(OH)) (9CI) (CA INDEX NAME)



L26 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:594244 HCAPLUS
DN 123:10960
ED Entered STN: 08 Jun 1995
TI Curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance
IN Yonetani, Asako; Komazaki, Shigeru; Oooka, Masataka
PA Dainippon Ink & Chemicals, Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08L101-02
ICS C08K005-15; C08L101-10
CC 37-6 (**Plastics** Manufacture and Processing)
Section cross-reference(s): 42
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07011151	A2	19950113	JP 1993-153496	19930624
PRAI JP 1993-153496		19930624		

AB The **composition** comprises siloxy group-containing copolymers, hydroxy-containing compds. and catalysts selected from **hemiacetal** carboxylates and/or hemiketal carboxylate. A **composition** from a mixture of Bu acrylate-Bu methacrylate-trimethylsiloxyethyl methacrylate-styrene copolymer 100, Burnock D 950 26.1 and reaction product of Et vinyl ether and dichloroacetate 2.46 parts showed gloss 92°, pencil hardness H and good chemical and **water** resistance.
ST polyurethane acrylate **coating** curing hardness; **hemiacetal** hemiketal carboxylate catalyst
IT Catalysts and Catalysis
Chemically resistant materials
(curable siloxy group-containing copolymer **composition** for

coating with good hardness and surface performance)

IT Epoxy resins, uses
Urethane polymers, uses
RL: NUU (Other use, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(acrylates, curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT **Acetals**
RL: CAT (Catalyst use); USES (Uses)
(hemi-, esters, catalysts; curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT **Acetals**
RL: CAT (Catalyst use); USES (Uses)
(hemi-, ketals, esters, catalysts; curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT **Coating** materials
(**water**-resistant, curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT 64046-46-4 89490-40-4 163617-57-0
RL: CAT (Catalyst use); USES (Uses)
(catalysts; curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT **163617-52-5** 163617-53-6 163617-54-7 **163617-55-8** **163617-56-9** **164124-28-1**
RL: NUU (Other use, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

IT **163617-52-5** **163617-55-8** **163617-56-9** **164124-28-1**
RL: NUU (Other use, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(curable siloxy group-containing copolymer **composition** for **coating** with good hardness and surface performance)

RN 163617-52-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with Burnock D 950, butyl 2-propenoate, ethenylbenzene and 2-[(trimethylsilyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

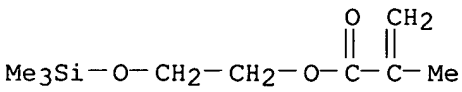
CM 1

CRN 83652-21-5
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

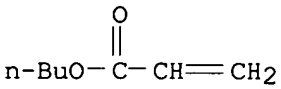
CM 2

CRN 17407-09-9
CMF C9 H18 O3 Si



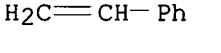
CM 3

CRN 141-32-2
CMF C7 H12 O2



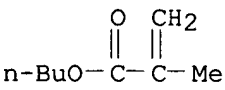
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

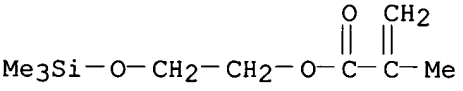
CRN 97-88-1
CMF C8 H14 O2



RN 163617-55-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate and 2-[(trimethylsilyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

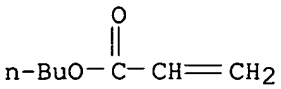
CM 1

CRN 17407-09-9
CMF C9 H18 O3 Si



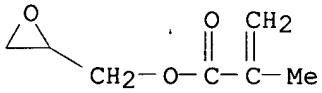
CM 2

CRN 141-32-2
CMF C7 H12 O2



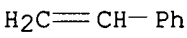
CM 3

CRN 106-91-2
CMF C7 H10 O3



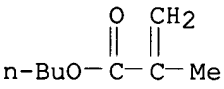
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

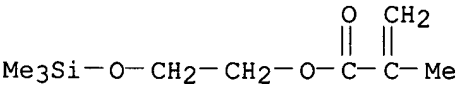
CRN 97-88-1
CMF C8 H14 O2



RN 163617-56-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2,5-furandione and 2-[(trimethylsilyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

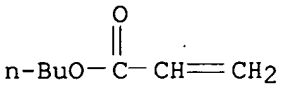
CM 1

CRN 17407-09-9
CMF C9 H18 O3 Si



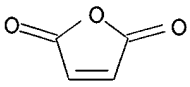
CM 2

CRN 141-32-2
CMF C7 H12 O2



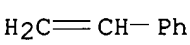
CM 3

CRN 108-31-6
CMF C4 H2 O3



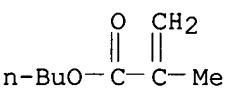
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

CRN 97-88-1
CMF C8 H14 O2



RN 164124-28-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, Epolead GT 301, ethenylbenzene and 2-[(trimethylsilyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

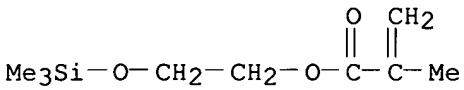
CM 1

CRN 163913-07-3
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

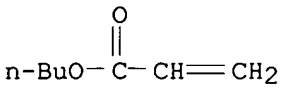
CM 2

CRN 17407-09-9
CMF C9 H18 O3 Si



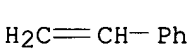
CM 3

CRN 141-32-2
CMF C7 H12 O2



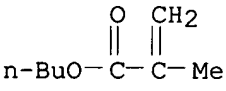
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

CRN 97-88-1
CMF C8 H14 O2



L26 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:255787 HCAPLUS
DN 122:190572
ED Entered STN: 21 Dec 1994
TI Silane-modified vinyl **acetal** polymer **compositions** for **coatings**
IN Fujiwara, Naoki
PA Kuraray Co, Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09D129-14

ICS C08F008-42; C09D005-00
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): **35**, 58
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 06248228	A2	19940906	JP 1993-36538	19930225
PRAI JP 1993-36538		19930225		

AB Title compns., alkali-, **water**-, and weather-resistant and useful for inorg. materials such as concrete, mortar, and cement boards, comprise vinyl **acetal** polymers containing 0.01-10 mol% silane-based functional groups. Thus, vinyl acetate-vinyltriacetoxysilane copolymer (mol ratio 99.6:0.4) was 99.4 mol% saponified and 63% **acetalized** with butyraldehyde to give a silane-modified butyral resin (d.p. 1700), which was dissolved in toluene/EtOAc, mixed with di-Bu phthalate, carbon black, powdered Al, and dibutyltin diacetate, and applied to a cement board to 40-μm thickness. The coat showed no change when immersed in **H2O** for 30 days or in saturated **aqueous** Ca(OH)2 for 10 days or exposed outdoor for 24 mo.

ST vinyl **acetal** silane modified **coating**; alkali resistance vinyl **acetal coating**; **water** resistance vinyl **acetal coating**; weather resistance vinyl **acetal coating**; cement board vinyl **acetal coating**

IT **Coating** materials
(silane-modified vinyl **acetal** polymers; alkali- and **water**- and weather-resistant for cement boards)

IT Vinyl **acetal** polymers
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(butyrals, silane-modified, **coatings**; alkali- and **water**- and weather-resistant for cement boards)

IT Building materials
(cement boards, **coatings** for; silane modified vinyl **acetal** resins with alkali and **water** and weather resistance for)

IT 123-72-8DP, Butyraldehyde, reaction products with saponified vinyl acetate-vinylsilane copolymers **30850-72-7DP**, Vinyl acetate-vinyltrimethoxysilane copolymer, saponified, reaction products with butyraldehyde **36494-29-8DP**, saponified, reaction products with butyraldehyde **86368-68-5DP**, saponified, reaction products with butyraldehyde **86368-72-1DP**, Vinyl acetate-vinyltriacetoxysilane copolymer, saponified, reaction products with butyraldehyde **86368-76-5DP**, 3-Acrylamidopropyltriethoxysilane-vinyl acetate copolymer, saponified, reaction products with butyraldehyde **86368-78-7DP**, saponified, reaction products with butyraldehyde
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**coatings**; alkali- and **water**- and weather-resistant for cement boards)

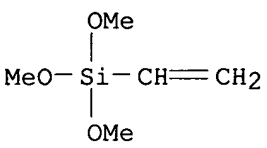
IT **30850-72-7DP**, Vinyl acetate-vinyltrimethoxysilane copolymer, saponified, reaction products with butyraldehyde **36494-29-8DP**, saponified, reaction products with butyraldehyde **86368-68-5DP**, saponified, reaction products with butyraldehyde **86368-72-1DP**, Vinyl acetate-vinyltriacetoxysilane copolymer, saponified, reaction products with butyraldehyde **86368-76-5DP**, 3-Acrylamidopropyltriethoxysila ne-vinyl acetate copolymer, saponified, reaction products with butyraldehyde **86368-78-7DP**, saponified, reaction products with butyraldehyde
RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)
(**coatings**; alkali- and **water**- and weather-resistant
for cement boards)

RN 30850-72-7 HCAPLUS
CN Acetic acid ethenyl ester, polymer with ethenyltrimethoxysilane (9CI) (CA INDEX NAME)

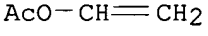
CM 1

CRN 2768-02-7
CMF C5 H12 O3 Si



CM 2

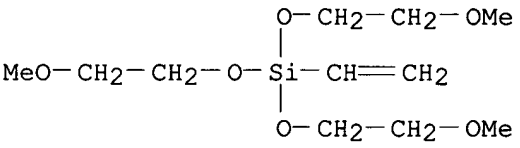
CRN 108-05-4
CMF C4 H6 O2



RN 36494-29-8 HCAPLUS
CN Acetic acid ethenyl ester, polymer with 6-ethenyl-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane (9CI) (CA INDEX NAME)

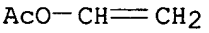
CM 1

CRN 1067-53-4
CMF C11 H24 O6 Si



CM 2

CRN 108-05-4
CMF C4 H6 O2

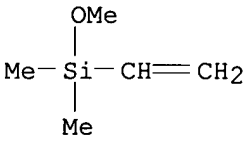


RN 86368-68-5 HCAPLUS
CN Acetic acid ethenyl ester, polymer with ethenylmethoxydimethylsilane (9CI)

(CA INDEX NAME)

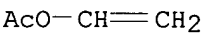
CM 1

CRN 16546-47-7
CMF C5 H12 O Si



CM 2

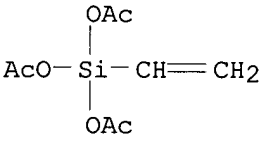
CRN 108-05-4
CMF C4 H6 O2



RN 86368-72-1 HCAPLUS
CN Acetic acid ethenyl ester, polymer with ethenylsilylidyne triacetate (9CI) (CA INDEX NAME)

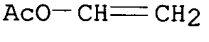
CM 1

CRN 4130-08-9
CMF C8 H12 O6 Si



CM 2

CRN 108-05-4
CMF C4 H6 O2

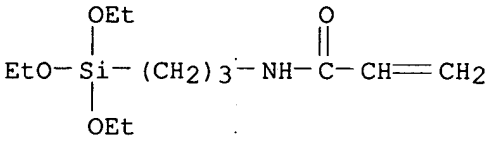


RN 86368-76-5 HCAPLUS
CN Acetic acid ethenyl ester, polymer with N-[3-(triethoxysilyl)propyl]-2-propenamide (9CI) (CA INDEX NAME)

CM 1

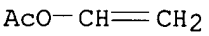
CRN 29198-92-3

CMF C12 H25 N O4 Si



CM 2

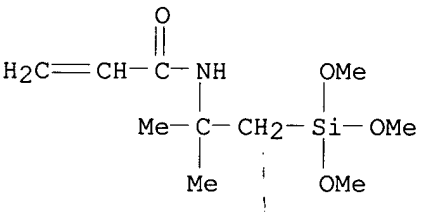
CRN 108-05-4
CMF C4 H6 O2



RN 86368-78-7 HCAPLUS
CN Acetic acid ethenyl ester, polymer with N-[1,1-dimethyl-2-(trimethoxysilyl)ethyl]-2-propenamide (9CI) (CA INDEX NAME)

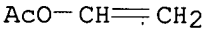
CM 1

CRN 86368-77-6
CMF C10 H21 N O4 Si



CM 2

CRN 108-05-4
CMF C4 H6 O2



L26 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:79056 HCAPLUS
DN 120:79056
ED Entered STN: 19 Feb 1994
TI **Water**-dispersible pressure-sensitive **adhesive compositions**
IN Satsuma, Michio
PA Nitto Denko Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09J133-06
CC 38-3 (**Plastics** Fabrication and Uses)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05230428	A2	19930907	JP 1992-72603	19920221
PRAI JP 1992-72603		19920221		

AB The title compns. with good adhesion to rough surface and peel strength contain (A) polymer emulsions obtained by emulsion polymerization of mixts. containing (meth)acrylic acid alkyl esters, CO2H-having monomers, and silane-containing monomers in **aqueous** media and (B) 20-200 parts (based on 100 parts of solids of the emulsions) low-mol.-weight polymers or their salts with Mw 5000-100,000 obtained by polymerization of mixts. containing (meth)acrylic acid alkyl esters and CO2H-having monomers in the presence of silane-containing chain-transfer agents. Thus, 100 parts (based on solids) Bu acrylate-methacrylic acid-3-methacryloxypropyltrimethoxysilane-vinyl acetate copolymer (Mw 720,000) and 50 parts acrylic acid-Bu acrylate-Et acrylate-3-mercaptopropyltrimethoxysilane copolymer (Mw 22,000) were mixed with 5 parts 25%-**NH4OH** to give a **composition**, which was applied on a polyester film to give a test piece with adhesion to rough surface 250 g/20-mm and holding time ≥120 min.

ST pressure sensitive **adhesive** acrylate copolymer; polyacrylate **adhesive** pressure sensitive

IT **Adhesives**
(pressure-sensitive, **water**-thinned, poly(meth)acrylates, with good adhesion to rough surface and peel strength)

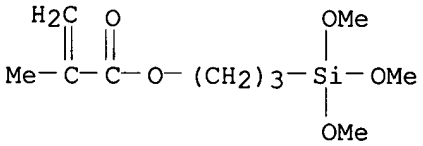
IT **152573-08-5** 152573-09-6 152573-10-9
RL: TEM (Technical or engineered material use); USES (Uses)
(**adhesives**, pressure-sensitive, **water**-thinned, with good adhesion to rough surface and peel strength)

IT **152573-08-5**
RL: TEM (Technical or engineered material use); USES (Uses)
(**adhesives**, pressure-sensitive, **water**-thinned, with good adhesion to rough surface and peel strength)

RN 152573-08-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenyl acetate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

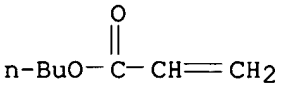
CRN 2530-85-0
CMF C10 H20 O5 Si



CM 2

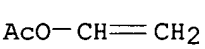
CRN 141-32-2

CMF C7 H12 O2



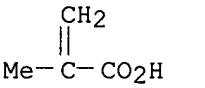
CM 3

CRN 108-05-4
CMF C4 H6 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



L26 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:478744 HCAPLUS
DN 109:78744
ED Entered STN: 02 Sep 1988
TI Dust-preventing coated **compositions** for cement floors
IN Ibaraki, Yukimitsu; Ninomiya, Yoshigo
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C04B041-63
ICS C08F002-24; C09D005-00
ICA C09K003-22
CC 58-4 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): **38**
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63055176	A2	19880309	JP 1986-199048	19860827
PRAI JP 1986-199048		19860827		

AB The title compns. are polymers prepared by emulsion polymerization of 100 weight parts monomer in 1-6 weight parts of a emulsifier containing 0.5-5 anionic emulsifier (polyoxyalkylene styrylphenyl ether sulfate) and 0-5 weight parts nonionic emulsifier (polyoxyalkylene styrylphenyl ether or polyethylene glycol-polypropylene glycol block copolymer). The **coating** polymers have a glass-transition temperature of 20-60°. Thus, Bu

acrylate 40, Me methacrylate 48.5, acrylonitrile 10, methacrylic acid 1, and divinylbenzene 0.5 were polymerized in the presence of Newcol 707 SF 10 parts, neutralized to pH 8-9 with **NH4OH**, adjusted with **water** to form an emulsion containing 40% solids, mixed with a 1:1 Et carbitol-tributoxy phosphate film-forming agent, applied at 10 g/49 cm2 on a mortar sample, and dried at .apprx.20° for 1 day. The emulsion had excellent permeation into the sample, and the coated sample had excellent **water** resistance and good resistance to alkali and dirt.

ST emulsion copolymn **coating** cement floor; butyl acrylate emulsion copolymn **coating**; methyl methacrylate emulsion copolymn **coating**; acrylonitrile emulsion copolymn **coating**; methacrylic acid emulsion copolymn **coating**; divinylbenzene emulsion copolymn **coating**; Newcol emulsion copolymn cement **coating**

IT **Coating** materials
(copolymers, by emulsion polymerization, for cement floors)

IT Cement
(floors, polymer **coatings** for, by emulsion polymerization)

IT **115708-70-8**, 2-Ethylhexyl acrylate-itaconic acid-γ-methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer 115785-64-3, Acrylonitrile-butyl acrylate-divinylbenzene-methacrylic acid-methyl methacrylate copolymer 115785-65-4, Acrylonitrile-divinylbenzene-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer
RL: USES (Uses)
(**coatings**, emulsion polymerization of, for cement floors)

IT 69599-43-5, Emulgen A-90
RL: USES (Uses)
(compns. containing Newcol 707 SF and, for emulsion polymerization of **coating** materials for cement floors)

IT 55866-85-8, Newcol 707 SF
RL: USES (Uses)
(emulsifier, for polymerization of **coating** materials for cement floors)

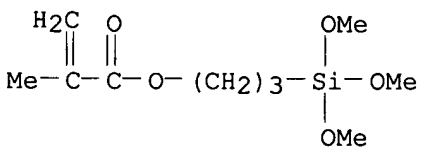
IT **115708-70-8**, 2-Ethylhexyl acrylate-itaconic acid-γ-methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer
RL: USES (Uses)
(**coatings**, emulsion polymerization of, for cement floors)

RN 115708-70-8 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-ethylhexyl 2-propenoate, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

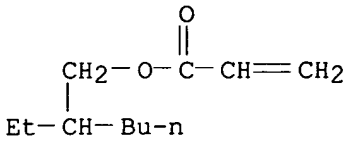
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



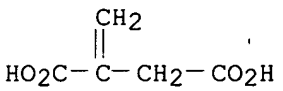
CM 2

CRN 103-11-7
CMF C11 H20 O2



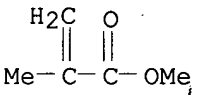
CM 3

CRN 97-65-4
CMF C5 H6 O4



CM 4

CRN 80-62-6
CMF C5 H8 O2



L26 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:187865 HCAPLUS
DN 108:187865
ED Entered STN: 28 May 1988
TI Silyl polymer **composition**
IN Umpleby, Jeffrey David
PA BP Chemicals Ltd., UK
SO Brit. UK Pat. Appl., 7 pp.
CODEN: BAXXDU
DT Patent
LA English
IC ICM C08F008-00
CC 37-6 (**Plastics** Manufacture and Processing)
Section cross-reference(s): 42
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2188640	A1	19871007	GB 1987-7889	19870402
	WO 8705916	A2	19871008	WO 1987-GB230	19870402
	WO 8705916	A3	19871022		
	W: FI, JP				
	EP 245938	A2	19871119	EP 1987-302899	19870402

EP 245938 A3 19871125
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
JP 63503147 T2 19881117 JP 1987-502165 19870402
FI 8705291 A 19871201 FI 1987-5291 19871201
PRAI GB 1986-8119 19860403
GB 1986-17007 19860711
WO 1987-GB230 19870402

AB Compns., thermoformable into useful articles, e.g. wire **coating** insulators, with reduced tendency to precrosslink, contain silyl polymers, **water** scavengers selected from organic orthoester, **acetal**, ketal, and alkoxysilane and are crosslinkable with **water** in the presence of silanol condensation catalysts. Thus, 200 parts pellets from masterbatch A containing 83:17 ethylene-Et acrylate copolymer 90.75, Bu2Sn dilaurate 0.75, Viton A 1.0, wax 1.5, and antioxidant 6.0% were blended with 3800 parts ethylene-vinyl trimethoxysilane copolymer pellets B, 25 g triethylorthoformate was added, and the A-B blend was extruded into a tape that was crosslinked in boiling **water**.

ST ethylene acrylate copolymer crosslinking; vinyltrimethoxysilane copolymer crosslinking; silanol condensation catalyst silyl polymer; crosslinking **water** silyl polymer; ethyl orthoformate scavenger silyl crosslinking; **acetal** scavenger **silyl** polymer crosslinking; ketal scavenger silyl polymer crosslinking; alkoxysilane scavenger silyl polymer crosslinking

IT Crosslinking
(by **water**, of silyl polymer **composition**, **water** scavengers to prevent premature)

IT Scavengers
(for **water**, ortho esters and **acetals** and ketals and alkoxysilanes, in **water**-curable silyl polymer compns.)

IT Crosslinking catalysts
(in **water**-curable silyl polymer **composition**)

IT **Acetals**
RL: USES (Uses)
(scavenger, for **water**, in **water**-curable silyl polymer **composition**)

IT Electric insulators and Dielectrics
(silyl polymer **composition**, containing **water** scavengers, **water**-curable)

IT Ortho acids
RL: USES (Uses)
(esters, scavenger, for **water**, in **water**-curable silyl polymer **composition**)

IT **Acetals**
RL: USES (Uses)
(ketals, scavenger, for **water**, in **water**-curable silyl polymer **composition**)

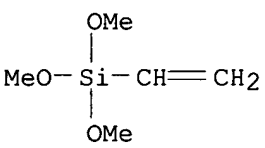
IT 77-76-9, 2,2-Dimethoxypropane 78-39-7, Triethylorthoacetate 105-57-7, 1,1-Diethoxyethane 115-80-0, Triethylorthopropionate 122-51-0, Triethylorthoformate 126-84-1, 2,2-Diethoxypropane 149-73-5, Trimethylorthoformate 497-26-7, 2-Methyl-1,3-dioxolane 534-15-6, 1,1-Dimethoxyethane 588-43-2, Tributylorthoformate 871-22-7, 1,1-Dibutoxyethane 2916-31-6, 2,2-Dimethyl-1,3-dioxolane 3069-40-7, Octyltrimethoxysilane 3453-99-4, 2,2-Dimethoxybutane 4744-10-9, 1,1-Dimethoxypropane 29633-71-4, Tributylorthoacetate
RL: USES (Uses)
(scavenger, for **water**, in **water**-curable silyl polymer **composition**)

IT **79794-64-2**
RL: USES (Uses)

(tape, crosslinked in **water**, thermoformable)
IT **79794-64-2**
RL: USES (Uses)
(tape, crosslinked in **water**, thermoformable)
RN 79794-64-2 HCAPLUS
CN 2-Propenoic acid, ethyl ester, polymer with ethene and ethenyltrimethoxysilane (9CI) (CA INDEX NAME)

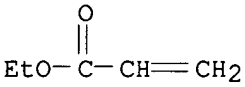
CM 1

CRN 2768-02-7
CMF C5 H12 O3 Si



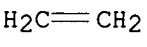
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

CRN 74-85-1
CMF C2 H4



L26 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1987:556473 HCAPLUS
DN 107:156473
ED Entered STN: 31 Oct 1987
TI Manufacture of non-film-forming resin emulsions and their powders
IN Takarabe, Kunihide; Kuwamura, Shinichi; Ozawa, Hiroshi; Yoshino, Fumio
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08F002-22
ICA C08F291-00; C09D005-02
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): **37**

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62079202	A2	19870411	JP 1985-218541	19851001
PRAI	JP 1985-218541		19851001		

AB Title emulsions useful for **coatings** having good hiding power and **water**, alkali, and weather resistance, are prepared by two stage free radical polymerization, resulting in porous multilayered particles having **water** contact angle (Aw) of the 2nd layer polymer 1-110° higher than Aw of the 1st layer polymers. Thus, styrene (I), Me methacrylate, acrylonitrile (II), ethylene glycol dimethacrylate, (NH4)2S2O8, emulsifying agents and **H2O** were mixed at 80° for 1 h, treated with more I, divinylbenzene, p-methylstyrene, (NH4)2S2O8 and **H2O** for 1 h, neutralized with **NH4OH** to form a 0.6 μ polymer emulsion which was then mixed with Voncoat EC 880 (acrylic-II copolymer), TiO2 and other additives to form a **composition** forming a **coating** (drying time 3 days) with hiding power (J15K 5400) 0.65, gloss retention 95% (after soaking in **H2O** for 14 days) and 94% [after soaking in 2% NaOH solution and saturated Ca(OH)2 solution for 14 days], vs. 0.05, 81% and 80%, resp., using a polymer prepared by one stage emulsion polymerization

ST non fiber forming emulsion manuf; porous multilayered microsphere vinyl polymer; two stage emulsion polymn particle; hiding power multilayered particle **coating**; **water** resistance multilayered particle **coating**; alkali resistance multilayered particle **coating**

IT **Coating** materials
(alkali- and **water**-resistant, containing porous multilayered styrene resin emulsions)

IT **Coating** materials
(alkali-resistant, porous, multilayered styrene polymer-containing **coatings** as)

IT Polymerization
(emulsion, two-stage, of vinyl monomers, for porous multilayered particles, for **coatings** with good hiding power)

IT **Coating** materials
(light-resistant, porous, multilayered styrene polymer-containing **coatings** as)

IT **Coating** materials
(**water**-resistant, porous, multilayered styrene polymer-containing **coatings** as)

IT 102257-35-2, Voncoat 5460 102257-39-6, Voncoat EC 880
RL: USES (Uses)
(**coatings** of, with porous multilayered non-film-forming polymer emulsions, for good hiding power and alkali resistance)

IT 102100-31-2P 110707-55-6P 110712-12-4P **110712-13-5P** 110726-19-7P
RL: PREP (Preparation)
(porous spheres manufacture of, by two-stage emulsion polymerization, for **coatings** with good hiding power and alkali resistance)

IT **110712-13-5P**
RL: PREP (Preparation)
(porous spheres manufacture of, by two-stage emulsion polymerization, for **coatings** with good hiding power and alkali resistance)

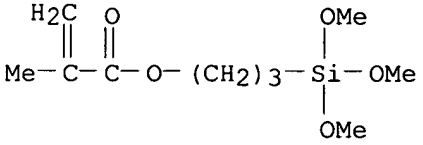
RN 110712-13-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, 1,1-dimethylethyl 2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate

(9CI) (CA INDEX NAME)

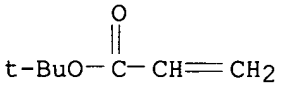
CM 1

CRN 2530-85-0
CMF C10 H20 O5 Si



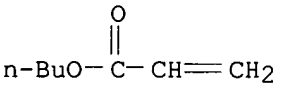
CM 2

CRN 1663-39-4
CMF C7 H12 O2



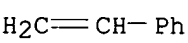
CM 3

CRN 141-32-2
CMF C7 H12 O2



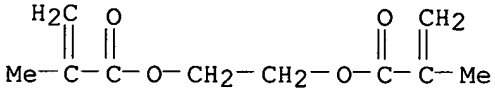
CM 4

CRN 100-42-5
CMF C8 H8



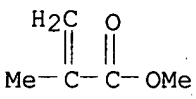
CM 5

CRN 97-90-5
CMF C10 H14 O4



CM 6

CRN 80-62-6
CMF C5 H8 O2



L26 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1987:103482 HCAPLUS
DN 106:103482
ED Entered STN: 05 Apr 1987
TI Photosensitive **compositions**
IN Fukutaka, Eitaro; Ogi, Hiroshi
PA Denki Kagaku Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08L009-00
ICS C08F002-48; C08F299-00; G03C001-00; G03C001-71
CC 38-3 (**Plastics** Fabrication and Uses)
Section cross-reference(s): 74
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 61185542	A2	19860819	JP 1985-25727	19850213
PRAI JP 1985-25727		19850213		

AB Photosensitive compns., useful for inks, resists, **coatings**, and **adhesives** (no data), contain butadien homo- or copolymers, OH-containing unsatd. esters, and PhCOC(OR)2R1 (R = C1-3 alkyl; R1 = Ph, C1-3 alkyl, Cl- or NH2-substituted Ph). Thus, a mixture of vinyl-terminated oligobutadiene (mol. weight 2000) 200, 2-hydroxyethyl methacrylate 100, hydroquinone 0.25, tris(2-methoxyethyl)vinylsilane 3, and PhCOC(OMe)2Ph 3 g was transparent and odorless and had viscosity 450 P at 25°, a high curing rate, good adhesion to Fe and glass, and good **water** resistance.
ST photosensitive **compn** moisture resistance; polybutadiene photosensitive **compn**; hydroxylethyl methacrylate photosensitive **compn**; benzil **acetal** photosensitive **compn**; silane coupler photosensitive **compn**
IT Light-sensitive materials
(butadiene oligomers-alkyl methacrylates-benzil ketals, silane couplers for)
IT Coupling agents
(vinylalkoxysilanes, for photosensitive polymer compns.)
IT Rubber, butadiene, uses and miscellaneous
RL: USES (Uses)

(of 1,2-configuration, methacrylate-terminated, oligomeric TE-2000, photosensitive compns. containing, **adhesive** and **water** -resistant)

IT **1067-53-4**
RL: USES (Uses)
(photosensitive compns. containing A-172, **adhesive** and moisture-resistant)

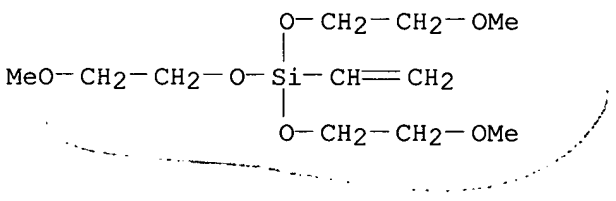
IT 97-90-5, Ethylene glycol dimethacrylate 868-77-9 923-26-2 24650-42-8, 2,2-Dimethoxy-2-phenylacetophenone
RL: USES (Uses)
(photosensitive compns. containing, **adhesive** and **water** -resistant)

IT 9003-17-2
RL: USES (Uses)
(rubber, of 1,2-configuration, methacrylate-terminated, oligomeric TE-2000, photosensitive compns. containing, **adhesive** and **water**-resistant)

IT **1067-53-4**
RL: USES (Uses)
(photosensitive compns. containing A-172, **adhesive** and moisture-resistant)

RN 1067-53-4 HCAPLUS

CN 2,5,7,10-Tetraoxa-6-silaundecane, 6-ethenyl-6-(2-methoxyethoxy)- (9CI) (CA INDEX NAME)



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